CAMS Project



NOAA/CAMS CFS Implementation Telecommunications Interface Services Detailed Design

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Prepared by Accenture for

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1 Introduction of the Telecommunications Interface Services

As part of the implementation strategy for the Commerce Administrative Management System (CAMS), the National Oceanic and Atmospheric Administration (NOAA) has decided to proceed with the design of a telecommunications interface for the Core Financial System (CFS) to replace the functionality of the Electronic Invoice Translation System (EITS) interface in the current legacy system.

The Telecommunications Interface will collect, consolidate and transfer telecommunications expenses from multiple external system sources. It will then pass the data to the Accounts Payable Standard Interface (Standard Interface) routine, which will in turn pass the data to CFS. It will process payment and accrual information for current period charges, handle On-Line Payment and Collect (OPAC) System charges, generate estimated accruals for select telecommunications expenses and perform basic validation checks of the processed data.

Most of the core processing and reporting activities will be handled by the Standard Interface which is currently in development. The Telecommunications Interface will primarily be responsible for collecting the dissimilar disbursement information from the various external data sources and reformatting it into a useable format for the Standard Interface. The one exception will be the generation of Estimated Accrual records. The Telecommunications Interface will analyze and generate estimated accrual records for select telecommunication expenses. The Estimated Accrual records will then be reformatted into a useable format for the Standard Interface.

The objective of this document is to provide detailed design information for the Telecommunications Interface. The detailed design document is a further refinement of the conceptual design and requirements documents previously distributed for review and comment. For details of the requirements, please refer to the Telecommunications Interface Services Requirements Version 5.2.

1.1 Naming Standards

The Telecommunications Interface will adhere to the latest version of the CAMS Support Center (CSC) Programming Standards and Guidelines. All newly created character and graphical user interface (GUI) programs will start with 'TEL' to uniquely identify the programs and the screens as Telecommunications Interface specific.

1.2 Purpose of Telecommunications Interface Services

The Telecommunications Interface provides a mechanism to efficiently and effectively transfer telecommunications expenses from multiple external data

sources through the Accounts Payable Standard Interface (Standard Interface) to CFS. The input data sources will be responsible for extracting and formatting their transactional data and transferring the data to a predetermined location as either an ASCII fixed format file or an Intermediary Oracle database record. The input data files will be placed directly into a designated directory on the GS140B (CFS server platform) or may be transferred via an electronic medium (such as tape, diskette, or CD) and moved by an Accounting Operations Division (AOD) technician to the appropriate directory for processing on the GS140. The transferred data batch (either ASCII data file or Oracle intermediary table entries) will contain multiple transactions of the same accounting transaction type.

The input data files will be processed and the Standard Interface formatted files will be generated by the Telecommunications Interface through a collection of PL/SQL scripts and UNIX shell scripts. The Telecommunications Interface will extract the data from the input data file, validate the data elements and process the results. The results will be written to a file or table format consistent with the Standard Interface requirements. The Telecommunications Interface routines will be executed on-demand through Graphical User Interface (GUI) or character screens.

1.2.1 High-Level Telecommunications Interface Processing and Activities

Telecommunications Interface processing is divided into three distinctive activities, each supported by unique initiation screens.

- 1. Generation of telecommunication expense invoice records.
- 2. Generation of one-month basis estimated accrual records.
- 3. Generation of yearly average estimated accrual records.

Within each activity the processing involves the following general steps:

- 1. Transfer of input data files or tables to required Telecommunications Interface specified directories.
- 2. Processing of the Telecommunications Interface input data files.
- 3. Transfer of Telecommunications Interface processed data to the Standard Interface for additional processing.

1.2.2 High-level Functional Flow of the Telecommunications Interface Services

The diagram below depicts all of the screens, CAMS/CFS and Telecommunications Interface specific, that are referenced during the execution of the Telecommunications Interface. It is important to note that all of these screens need not be used for every execution of the Telecommunications Interface.

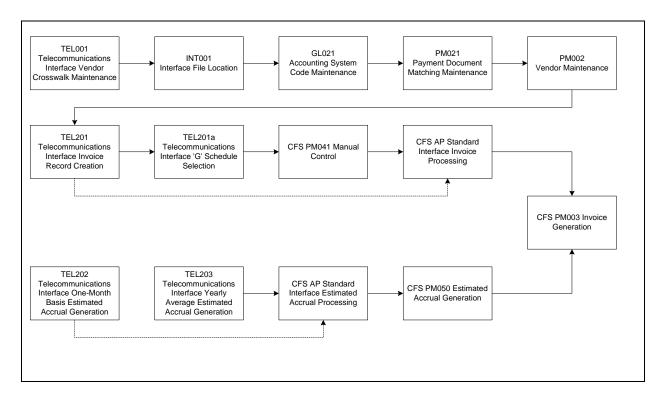


Figure 1.0 - high-level Function Flow of the Telecommunications Interface Services

2 Telecommunications Interface Maintenance Screen

In order to function as designed, the Telecommunications Interface will require the development of a new maintenance screen, three new maintenance tables that support the screen and the entry of specific maintenance data. All maintenance data must be entered into several Telecommunications Interface specific and CAMS/CFS maintenance tables prior to the initial execution of the Telecommunications Interface.

The maintenance values will establish and control the Telecommunications Interface directories setup as well as vendor crosswalk and validation capabilities. In addition, the maintenance values will ensure that all records processed through the Telecommunications Interface are easily distinguishable within CFS. The need to readily identify Telecommunications Interface records will be further explained in the estimated accrual sections of this document.

2.1 TEL001 - Telecommunications Interface Vendor Crosswalk Maintenance Screen

2.1.1 Purpose

The new TEL001 (Telecommunications Interface Vendor Crosswalk Maintenance Screen) will be used to establish and maintain crosswalk capabilities for telecommunication vendor records. The screen will also function as the primary mechanism to define and control the input and output record formats and the crucial data elements that will be passed to the Standard Interface. Finally, TEL001 will establish the OPAC status of the input files.

2.1.2 Form Layout

The TEL001 screen will be developed as a GUI screen using Oracle Forms Version 6i or higher. The screen is divided into a header and a detail block. The header block will be used to establish and control the following criteria:

- Location of the input data file (Interface File Type)
- Distinguishing record criteria (Invoice Type and Item Type)
- Format of the input data file (File Format)
- OPAC status of the input data file
- Active status of the header record

The detail block will be used to control and maintain the crosswalk between the input file vendor code and the CAMS/CFS Vendor Name, Vendor Number and Vendor ID.

2.1.2.1 TEL001 - Telecommunications Interface Vendor Crosswalk Maintenance Screen

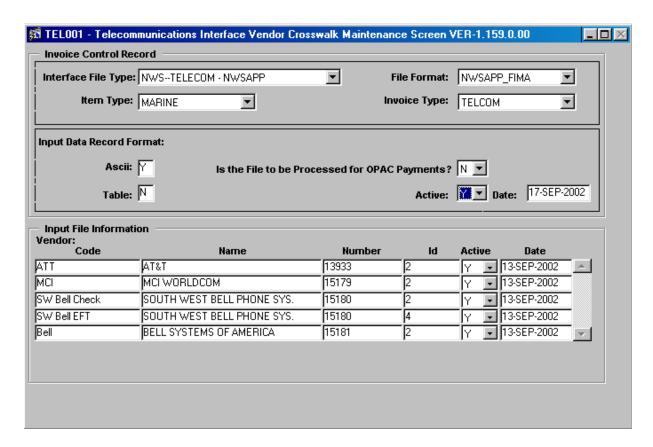


Figure 2.0 - TEL001 Telecommunications Interface Vendor Crosswalk Maintenance Screen

2.1.3 Initial Set-Up

Prior to the initiation of the Telecommunications Interface invoice generation processing, the Tel_Maint_Control and Tel_Maint_Vendor tables of the TEL001 screen will have to be established and activated. The TEL001 screen is the core of the Telecommunications Interface. It will control and coordinate the linkages between the Telecommunications Interface, the Standard Interface and the CAMS/CFS modules. The TEL001 screen will also be used to establish and maintain the vendor crosswalk for the Telecommunications Interface.

The initial set-up of the TEL001 vendor maintenance values will entail cleaning and consolidating multiple external systems vendor values. The TEL001 will provide a mechanism to link the external vendor information to the appropriate CAMS/CFS vendor values and other Telecommunications Interface specific control values. The initial set-up procedures for the TEL001 screen will not be discussed in the detail design, but will be developed and documented with endusers at a later date.

2.1.4 Operating Rules

The following sections describe the operating rules applicable to the TEL001 screen. Operating rules are directly associated with a particular operation; where as business rules are associated more generally with the whole application. The TEL001 screen will only be accessible to the system administrator. Creating and maintaining the TEL001 maintenance records will be the responsibility of the Telecommunications System Administrator.

2.1.4.1 Create a Record

- Active control block values must be unique.
- A control block cannot be activated without values in the detail block.
- Detail block values do not have to be unique.
- Only active values that have been established in Telecommunications Interface and CAMS/CFS maintenance tables will be available in the lists of values.

2.1.4.2 Modify a Record

- Changes to an existing record can only be made after the Active Flag has been set to 'N' (i.e., deactivated) in the control block.
- Only valid values that have been established in Telecommunications Interface and CAMS/CFS maintenance tables will be available in the lists of values.
- Existing records cannot be saved that have been modified to nonunique control block criteria.

2.1.4.3 Save a Record

- Changes will only be saved when the user clicks the save icon from the Oracle Forms Version 6.0 tool bar or selects the save function from the pull down listings.
- Active and inactive records can be saved.
- Records will be automatically saved when the end-user navigates from the control block to the detail block.

2.1.4.4 Delete a Record

- A control block cannot be deleted.
- Any detail block, where the control block has been deactivated, can be deleted.

2.1.4.5 Queries

- Upon entering the screen, TEL001 automatically queries all records in the control and detail blocks that have been previously entered.
- Users are allowed to perform queries on all fields in the control and detail blocks.

2.1.5 Business Rules

The following section describes the high-level business rules applicable to the TEL001 screen.

- All fields in the control and detail blocks must be entered prior to activation of the record.
- A control block cannot be activated without at least one active vendor record.
- The detail block can contain one or many vendor records.
- Vendor records can be activated or deactivated.
- Users can only select active Vendor Name, Vendor Number and Vendor ID combinations as established in the CAMS/CFS tables associated with PM002 screen.
- If the Default_OPAC_Status flag field is populated with 'Y' or 'N' on the Tel_Maint_Input table the OPAC_Flag field on the TEL001 form will be set to the assigned value and cannot be changed by the end user.
- Only maintenance records that utilize the Excel spreadsheet interface file format (CAMS and FIMA) will allow the end-user to adjust the OPAC_Flag field. All other interface file formats will be assigned by the developer and maintained within the Default_OPAC_Status field in the Tel_Maint_Input table.

2.1.6 Input

The following sections list all tables needed prior to recording entries into the TEL001 screen. The table below lists the database tables where the screen is obtaining the information.

Table Name	Screen	Usage	Record Requirement
Tel_Maint_Control	TEL001	Base Table	Base table record of the maintenance control block
Tel_Maint_Vendor	TEL001	Base Table	Base table record of the maintenance detail block
Interface_Control	INT001	LOV	Active and valid item type
Interface_Dir_Detail	INT001	LOV	Active and valid employee records
Interface_User_Detail	INT001	LOV	Active and valid directory locations
Accounting_Code	GL021	LOV	Active and valid invoice and interface file types

Table Name	Screen	Usage	Record Requirement
Document_Matching	PM021	LOV	Active and valid document and item type combinations
Vendor_Control	PM002	LOV	Active and valid vendor records
Vendor_Detail	PM002	LOV	Active and valid vendor records
Tel_Maint_Input	N/A	LOV	Valid file format names associated with CTL file names.

Table 2.0 - TEL001 (Telecommunications Interface Vendor Crosswalk Maintenance Screen) Input Tables

2.1.7 TEL001 Screen Processing Logic

The following sections will include an overview of all tables, both Telecommunications Interface specific and CAMS/CFS, that will be accessed and/or updated by the TEL001 screen. The following sections also include detailed descriptions of the field descriptions, the processing logic associated with the TEL001 screen and the base tables that support the screen.

2.1.7.1 Processing Logic for the Control Block (Tel_Maint_Control) of the TEL001 Screen

2.1.7.1.1 Tel Maint Control Table Overview

The following document table lists all screen labels and applicable database table names (Field Name) within the control block of the TEL001 screen.

Screen Label	Field Name	Type and Size
N/A	Tel_Control_ID	Number(8)
Interface File Type	Interface_File_Type	Varchar2(4)
Invoice Type	Invoice_Type	Varchar2(6)
Item Type	Item_Type	Varchar2(6)
File Format	File_Format	Varchar2(13)
Is the File to be Processed for OPAC Payments?	OPAC_Flag	Varchar2(1)
Input Data Record Format: ASCII	Record_Format_ASCII	Varchar2(1)
Input Data Record Format: Table	Record_Format_Table	Varchar2(1)
Active	Active_Status	Varchar2(1)
Date	Status_Date	Date
N/A	User_Name	Varchar2(30)

Table 2.1 - Overview Processing Logic for the Control Block of the TEL001 Screen

2.1.7.1.2 Tel_Maint_Control Table Detailed Review

The following document tables list the field descriptions and the processing logic for each field within the control block of the TEL001 screen.

Field Property	Property Value
Screen Label	N/A
Purpose	This field captures a system generated sequential number that will be used as the primary key of the table. This field will be populated upon creation of a new maintenance control record.
Field Name	Tel_Control_ID
Table Name	Tel_Maint_Control
Displayed	No
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Yes. Within the control table.
Default Value	Null
Screen Display Format	
N/A	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	N/A
Tab Position	N/A

Field Property	Property Value
Screen Label	Interface File Type
Purpose	This field describes the specific interface file type and its associated description that is to be processed.
Field Name	Interface_File_Type
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Required before the record can be saved.
System Generated	No
Primary Key	Yes
Unique	Yes
Default Value	Null
Screen Display Format	
LOV	Active and valid Interface_Type from the Interface_Control table on screen INT001 and the Code_Description from the Accounting_Code table on screen GL021 where the Code_Value from the Accounting_Code table is equal to the Interface_Type from the Interface_Control table. (Requires active and valid Code_Values from the Accounting_Code table with a Code_Type of 'INTTYP' on screen GL021.)

Field Property	Property Value
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	1

Field Property	Property Value
Screen Label	Invoice Type
Purpose	This field describes the specific invoice type that is to be assigned to all processed vendor invoice records.
Field Name	Invoice_Type
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Required before the record can be saved.
System Generated	No
Primary Key	No
Unique	No
Default Value	'TELCOM'
Screen Display Format	
LOV	Active and valid Code_Values from the Accounting_Code table with a Code_Type of 'ACCR' on screen GL021.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	2

Field Property	Property Value
Screen Label	Item Type
Purpose	This field describes the specific interface file type that is to be assigned to all processed vendor invoice records.
Field Name	Item_Type
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Required before the record can be saved.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
LOV	Active and valid Code_Values from the Accounting_Code table with a Code_Type of 'CDITEM' on screen GL021.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required

Field Property	Property Value
Tab Position	3

Field Property	Property Value
Screen Label	File Format
Purpose	This field describes the format of the file to be processed by the telecommunications interface. The file format selected is associated with a CTL file name. Both values are maintained on the Tel_Maint_Input table.
Field Name	File_Format
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Required before the record can be saved.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
LOV	File Format names established on the Tel_Maint_Input table.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	4

Field Property	Property Value	
Screen Label	Is the File to be Processed for OPAC Payments?	
Purpose	This field captures the OPAC status of the file to be processed.	
Field Name	OPAC_Flag	
Table Name	Tel_Maint_Control	
Displayed	Yes	
Format	N/A	
Required	Only 'Y' or 'N' allowed.	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	'N'	
Screen Display Format		
List Box	Yes	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	
Tab Position	5	

Field Property	Property Value
Screen Label	Input Data Record Format: ASCII

Field Property	Property Value
Purpose	This non-enterable field describes the expected input record format of the data batch to be processed by the telecommunications interface. If the Input_Format_Type on the Tel_Maint_Input table is set to 'F' for the maintenance record where the File_Format as selected on TEL001 is equal to the Input_File_Format_Name on the Tel_Maint_Input table then this field will be set to 'Y'.
	A 'Y' in the field indicates that the input record will be a flat file. The Telecommunications Interface will reference the directory setup on INT001 for the specified Interface_File_Type.
Field Name	Record_Format_ASCII
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
Text Box	Derived value from the Tel_Maint_Input table.
Processing Logic	
Validation Check	See Required
Validation Rules	If the Record_Format_ASCII column is set to 'Y' than the Record_Format_Table column for the same record must be set 'N'.
Tab Position	N/A

Field Property	Property Value
Screen Label	Input Data Record Format: Table
Purpose	This non-enterable field describes the expected input record format of the data batch to be processed by the telecommunications interface. If the Input_Format_Type on the Tel_Maint_Input table is set to 'T' for the maintenance record where the File_Format as selected on TEL001 is equal to the Input_File_Format_Name on the Tel_Maint_Input table then this field will be set to 'Y'. A 'Y' in the field indicates that the input record will be an Oracle intermediary table. The Telecommunications Interface will <i>NOT</i> reference the directory setup on INT001 for the specified Interface_File_Type. The table name will be inserted into the coding logic.
Field Name	Record_Format_Table
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No

Field Property	Property Value
Default Value	N/A
Screen Display Format	
Text Box	Derived value from the Tel_Maint_Input table.
Processing Logic	
Validation Check	See Required
Validation Rules	If the Record_Format_Table column is set to 'Y' than the Record_Format_ASCII column for the same record must be set 'N'.
Tab Position	N/A

Field Property	Property Value
Screen Label	Active
Purpose	This field captures the active status of the maintenance control record.
Field Name	Active_Status
Table Name	Tel_Maint_Control
Displayed	Yes
Format	N/A
Required	Only 'Y' or 'N' allowed.
System Generated	No
Primary Key	No
Unique	No
Default Value	'N'
Screen Display Format	
List Box	Yes
Processing Logic	
Validation Check	See Required
Validation Rules	All fields on the control and detail blocks must be populated prior to activation.
	At least one record in the detail block must be active prior to activation.
Tab Position	6

Field Property	Property Value
Screen Label	Date
Purpose	This field captures the date that the maintenance record was last activated or deactivated.
Field Name	Status_Date
Table Name	Tel_Maint_Control
Displayed	Yes
Format	DD-MON-RRRR
Required	No
System Generated	Yes. Set as TRUNC(SYSDATE) upon activation or deactivation of the maintenance record.
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	

Field Property	Property Value
Text Box	Yes
Processing Logic	
Validation Check	See Format
Validation Rules	Set as TRUNC(SYSDATE) upon activation or deactivation of the maintenance record.
Tab Position	N/A

Field Property	Property Value
Screen Label	N/A
Purpose	This field captures the user name or the individual or application that made the last modification to the data record.
Field Name	User_Name
Table Name	Tel_Maint_Control
Displayed	No
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
N/A	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	 Set as Oracle Database User ID upon activation or deactivation of the maintenance record. See Required.
Tab Position	N/A

Table 2.2 - Detailed Processing Logic for the Control Block of the TEL001 Screen

2.1.7.1.3 Tel_Maint_Vendor Table Overview

The following document table lists all screen labels applicable database table names (Field Name) within the detail block of the TEL001 screen.

Screen Label	Field Name	Type and Size
N/A	Tel_Control_ID	Number(8)
N/A	Tel_Detail_ID	Number(3)
Input File Information: Vendor: Code	Input_Vendor_Code	Varchar2(16)
CAMS/CFS Information: Vendor: Name	CFS_Vendor_Name	Varchar2(30)
CAMS/CFS Information: Vendor: Number	CFS_Vendor_Number	Number(10)
CAMS/CFS Information: Vendor: ID	CFS_Vendor_ID	Number(6)
N/A	CFS_Vendor_Payment_Method	Varchar(6)

Screen Label	Field Name	Type and Size
CAMS/CFS Information: Vendor: Active	Vendor_Status	Varchar2(1)
CAMS/CFS Information: Vendor: Date	Vendor_Status_Date	Date

Table 2.3 - Overview Processing Logic for the Detail Block of the TEL001 Screen

2.1.7.1.4 Tel_Maint_Vendor Table Detailed Review

The following document tables list the field descriptions and the processing logic for each field on the detail block of the TEL001 screen.

Field Property	Property Value
Screen Label	N/A
Purpose	This field captures a system generated sequential number that will be used as part of the primary key of the table. This field will be the foreign key that links the detail records with the control record. This field will be populated upon creation of a new maintenance detail record.
Field Name	Tel_Control_ID
Table Name	Tel_Maint_Vendor
Displayed	No
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	Null
Screen Display Format	
N/A	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A
Tab Position	N/A

Field Property	Property Value
Screen Label	N/A
Purpose	This field captures a system generated sequential number that will be used as part of the primary key of the table. This field will be populated upon creation of a new maintenance detail record.
Field Name	Tel_Detail_ID
Table Name	Tel_Maint_Control
Displayed	No
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes

Field Property	Property Value
Unique	Yes. Within the detail table.
Default Value	Null
Screen Display Format	
N/A	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	N/A
Tab Position	N/A

Field Property	Property Value
Screen Label	Input File Information: Vendor: Code
Purpose	This field captures the name of the vendor as supplied on the input data records. For input files that do not supply a vendor name 'None' is acceptable.
Field Name	Input_Vendor_Code
Table Name	Tel_Maint_Vendor
Displayed	Yes
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
Text Box	Yes
Processing Logic	
Validation Check	N/A
Validation Rules	Must be entered before activation.
Tab Position	1

Field Property	Property Value
Screen Label	CAMS/CFS Information: Vendor: Name
Purpose	This field captures the name of the vendor as recorded in the CFS tables Vendor_Control and Vendor_Detail on screen PM002.
Field Name	CFS_Vendor_Name
Table Name	Tel_Maint_Vendor
Displayed	Yes
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
LOV	Active and valid Report_Name from the Vendor_Control table.
Processing Logic	

Field Property	Property Value
Validation Check	See LOV
Validation Rules	Must be entered before activation.
Tab Position	2

Field Property	Property Value	
Screen Label	CAMS/CFS Information: Vendor: Number	
Purpose	This field captures the number of the vendor as recorded in the CFS tables Vendor_Control and Vendor_Detail on screen PM002.	
Field Name	CFS_Vendor_Number	
Table Name	Tel_Maint_Vendor	
Displayed	Yes	
Format	N/A	
Required	No	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	Null	
Screen Display Format		
LOV	Active and valid Vendor_No from the Vendor_Control and Vendor_Detail tables.	
Processing Logic		
Validation Check	See LOV	
Validation Rules	 Must be entered before activation. Selection based on the Vendor Name entered in the CFS_Vendor_Name field. 	
Tab Position	3	

Field Property	Property Value		
Screen Label	CAMS/CFS Information: Vendor: ID		
Purpose	This field captures the ID Number of the vendor as recorded in the CFS tables Vendor_Control and Vendor_Detail on PM002.		
Field Name	CFS_Vendor_ID		
Table Name	Tel_Maint_Vendor		
Displayed	Yes		
Format	N/A		
Required	No		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	Null		
Screen Display Format	Screen Display Format		
LOV	Active and valid Vendor_ID from the Vendor_Detail table.		
Processing Logic			
Validation Check	See LOV		

Field Property	Property Value	
Validation Rules	 Must be entered before activation. Selection based on the Vendor Name entered in the CFS_Vendor_Name field. Must be equal to 'Payment' Vendor_ID. If the OPAC_Flag on the Tel_Maint_Control table is equal to 'Y' then the Payment_Method on the Vendor_Detail table for the vendor record must be equal to 'SF1081'. If the OPAC_Flag on the Tel_Maint_Control table is equal to 'N' then the Payment_Method on the Vendor_Detail table for the vendor record must NOT be equal to 'SF1081'. 	
Tab Position	4	

Field Property	Property Value		
Screen Label	N/A		
Purpose	This field captures payment method that is associated with the CFS_Vendor_No and CFS_Vendor_ID as entered on the TEL001 maintenance screen. This value will be derived from the Payment_Method field on the Vendor_Detail table in CFS for the Vendor_No and Vendor_ID as recorded in the CFS tables Vendor_Control and Vendor_Detail on PM002.		
Field Name	CFS_Vendor_Payment_Method		
Table Name	Tel_Maint_Vendor		
Displayed	No		
Format	N/A		
Required	No		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	Null		
Screen Display Format	Screen Display Format		
List Box	All fields on the control and detail blocks must be populated prior to activation.		
Processing Logic			
Validation Check	N/A		
Validation Rules	See List Box		
Tab Position	N/A		

Field Property	Property Value
Screen Label	CAMS/CFS Information: Vendor: Active
Purpose	This field captures the active status of the vendor record on the TEL001 screen. This value does not reflect that active status of the vendor record in the CFS tables.
Field Name	Vendor_Status
Table Name	Tel_Maint_Vendor
Displayed	Yes
Format	N/A
Required	No
System Generated	No
Primary Key	No

Field Property	Property Value
Unique	No
Default Value	Null
Screen Display Format	
List Box	All fields on the control and detail blocks must be populated prior to activation.
Processing Logic	
Validation Check	Only 'Y' or 'N' allowed.
Validation Rules	See List Box
Tab Position	5

Field Property	Property Value	
Screen Label	CAMS/CFS Information: Vendor: Date	
Purpose	This field captures the date that the vendor record was last activated or deactivated on the TEL001 screen.	
Field Name	Vendor_Status_Date	
Table Name	Tel_Maint_Vendor	
Displayed	Yes	
Format	DD-MON-RRRR	
Required	No	
System Generated	Yes. Set as TRUNC(SYSDATE) upon activation or deactivation of the vendor record.	
Primary Key	No	
Unique	No	
Default Value	Null	
Screen Display Format		
Text Box	Set as TRUNC(SYSDATE) upon activation or deactivation of the vendor record.	
Processing Logic		
Validation Check	N/A	
Validation Rules	See Text Box	
Tab Position	N/A	

Table 2.4 - Detailed Processing Logic for the Detail Block of the TEL001 Screen

2.1.7.2 Processing Logic for the Telecommunications Interface Input Maintenance Table (Tel_Maint_Input)

The purpose of this table is to provide an association between the input record formats entered by the end user on the TEL001 screen and the CTL file formats and or PL/SQL routines needed to transfer the input records from input sources to the Telecommunications Interface.

The CTL file format defines the load process to be used to import input data into the working table that is processed by the Telecommunications Interface. A unique CTL file format and PL/SQL routine will be developed for each of the external data source systems that utilize flat files (ASCII) to transfer the input records.

External data source systems that utilize Oracle intermediary tables instead of flat files will not require CTL files but will use PL/SQL routines to transfer the input records.

This table also provides a central location where all data load values for the Telecommunications Interface are maintained. Only database administrators will have the ability to modify or add values on this table.

2.1.7.2.1 Tel_Maint_Input Table Overview

The following document table lists the database table names (Field Names) within the Telecommunications Interface CTL File Name Maintenance Table.

Screen Label	Field Name	Type and Size
N/A	Tel_Maint_Input_Record_ID	Number(8)
N/A	Input_File_Format_Name	Varchar2(13)
N/A	Input_Format_Type	Varchar2(1)
N/A	Temp_Table_Builder_Script	Varchar2(30)
N/A	Temp_Inv_Table_Builder_Script	Varchar2(30)
N/A	CTL_File_Name	Varchar2(30)
N/A	Load_Processing_Table_Script	Varchar2(30)
N/A	User_Name	Varchar2(30)
N/A	Modification_Date	Date
N/A	Device_Name	Varchar2(30)
N/A	Table_Name	Varchar2(30)
N/A	Default_OPAC_Status	Varchar2(1)

Table 2.5 - Overview Processing Logic for the Telecommunications Interface CTL File Name Maintenance Table

2.1.7.2.2 Tel_Maint_Input Table Detailed Review

The following document tables list the column descriptions and the processing logic for each column on the Telecommunications Interface CTL File Name Maintenance Table.

Column Property	Property Value
Purpose	This field captures in the file format of the input data record. The values entered into this field will be entered and maintained by the system administrator and selected as the 'File Format' on the TEL001 screen.
Field Name	Input_File_Format_Name
Table Name	Tel_Maint_Input
Format	N/A
Required	Yes
System Generated	No

Column Property	Property Value
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures a flag which indicates the input record format. The values entered into this field will be entered and maintained by the system administrator and will be displayed on the TEL001 screen for an associated File Format. 'F' stands for Flat File (ASCII) 'T' stands for Oracle intermediary table
Field Name	Input_Format_Type
Table Name	Tel_Maint_Input
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	Can only be 'F' or 'T'.

Column Property	Property Value
Purpose	This field captures the name of the PL/SQL routine that will be used to build the temporary table that is identical in format to the input flat file format. PL/SQL routines will only be developed and recorded in this column for input data sources that utilize flat files to transfer input record batches.
Field Name	Temp_Table_Builder_Script
Table Name	Tel_Maint_Input
Format	N/A
Required	Yes if Input_Format_Type is equal 'F'
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the name of the PL/SQL routine that will be used to build the temporary Telecommunications Interface processing tables (i.e. Tel_Inv_Header, Tel_Inv_Control and Tel_Inv_Detail). PL/SQL routines will be developed and recorded in this column for all input data sources.
Field Name	Temp_Inv_Table_Builder_Script
Table Name	Tel_Maint_Input
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the name of the CTL file that will be used to control the coping of the data from the initial input temporary table to the Telecommunications Interface temporary table. CTL files will only be developed and recorded in this column for input data sources that utilize flat files to transfer input record batches.
	The CTL file name is associated with the input file format name that correlates to the 'File Format' selected on the TEL001 screen. When an invoice is processed the Telecommunications Interface will select the applicable load process based upon the CTL file name specified.
Field Name	CTL_File_Name
Table Name	Tel_Maint_Input
Format	N/A
Required	Yes if Input_Format_Type is equal 'F'
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the name of the PL/SQL routine that will be used to copy the data from the initial input temporary table to the Telecommunications Interface temporary table. The PL/SQL routines will be developed and recorded in this column for all input data sources that utilize flat files or Oracle intermediary tables to transfer input record batches.
Field Name	Load_Processing_Table Script
Table Name	Tel_Maint_Input
Format	N/A

Column Property	Property Value
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the user name of the individual that modified the row on the Tel_Maint_Input table.
Field Name	User_Name
Table Name	Tel_Maint_Input
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field will capture the date the modification to the row on the Tel_Maint_Input table was performed.
Field Name	Modification_Date
Table Name	Tel_Maint_Input
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC (SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the terminal code through which the row on the Tel_Maint_Input table was last modified.
Field Name	Device_Name

Column Property	Property Value
Table Name	Tel_Maint_Input
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the intermediary table name that is associated with each of the input data sources that utilize Oracle intermediary tables to transfer their input data. No processing or validations reference this column as the table names are hard coded into the load routines, but this column is helpful as a reference tool.
Field Name	Table_Name
Table Name	Tel_Maint_Input
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Field Property	Property Value
Screen Label	N/A
Purpose	This database field captures default OPAC status as determined by the developer for a particular interface file format. If this database field is populated on the table, the value will populate and protect the OPAC_Flag on the TEL001 screen. If no value is captured in this database field the OPAC_Flag on the TEL001 form will be used to determine the OPAC status of the maintenance record. 'Y' indicates that the selected Interface_File_Format is for an OPAC record. 'N' indicates that the selected Interface_File_Format is not for an OPAC record. A NULL value indicates that the selected Interface_File_Format's OPAC status will be determined by the value entered in the OPAC_Flag field.
Field Name	Default_OPAC_Status
Table Name	Tel_Maint_Input
Displayed	No
Format	'Y', 'N' or NULL

Field Property	Property Value		
Required	No		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	Null		
Screen Display Format			
N/A	N/A		
Processing Logic			
Validation Check	N/A		
Validation Rules	If not NULL populate and protect the OPAC_Flag field on the Tel_Maint_Control table.		
Tab Position	N/A		

Table 2.6 - Detailed Processing Logic for the Telecommunications Interface CTL File Name Maintenance Table

2.1.7.3 Security

The existing CAMS/CFS menu security and the CAMS/CFS database roles will be used for implementing the security on the new screens and the objects developed, respectively.

2.1.7.4 Error Handling Messages

The following table lists the main error and warning messages applicable to the TEL001 screen.

Message No.	Туре	Text				
1	Error	Interface File Type must be entered.				
2	Error	Invoice Type must be entered.				
3	Error	Item Type must be entered.				
4	Error	File Format must be entered.				
5	Error	Input Vendor Code must be entered.				
6	Error	CAMS/CFS Vendor Name must be entered.				
7	Error	CAMS/CFS Vendor Number must be entered.				
8	Error	CAMS/CFS Vendor ID must be entered.				
9	Error	The record cannot be activated because the control block values entered are not unique.				
10	Error	The record cannot be activated because no detail block values have been entered.				
11	Error	The record cannot be activated because no active vendor record exists.				
12	Error	Changes cannot be made to an active record.				
13	Error	Field is not enterable.				
14	Error	The control block cannot be deleted.				
15	Error	The detail block of an active record cannot be deleted.				

Message No.	Туре	Text
16	Error	The load process did not execute successfully. The file format specified does not match any established input file format.
17	Error	The record cannot be activated when both Input Data Record Formats are set to 'N'.

Table 2.7 - Main Error and Warning Messages for the TEL001 Screen.

2.1.7.5 Output

This section lists the database tables that will be affected by the actions executed on the TEL001 screen and any output files that will be produced. The table below lists the database tables where the TEL001 screen is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Maint_Control	Yes	Yes	Yes	Base table
Tel_Maint_Vendor	Yes	Yes	Yes	Base table

Table 2.8 - Output Tables Affected by the TEL001 Screen.

2.1.7.6 Reports

No reports will be generated through the actions executed on the TEL001 screen.

2.1.8 Requirements Met in Previous Section

No specific requirements were met in this section. The TEL001 screen functions as the main support mechanism for all of the Telecommunications Interface processing.

3 Core Financial System (CFS) Set-Up

The following sections describe data maintenance values that will be added to existing CFS maintenance tables. The data setup described below will assist the Telecommunications Interface with locating and generating unique invoice and estimated accrual records.

The Telecommunications Interface does not require any database changes to existing CAMS/CFS tables, only the manual creation of new maintenance data. Therefore, the specific data values will not be discussed within this detailed design, but will be developed and documented with CAMS/CFS functional experts at later date.

3.1 GL021 - Accounting System Code Maintenance

Maintenance values will have to be added to the GL021 Accounting System Code Maintenance screen. The data elements entered on the GL021 screen will ensure the records processed through the Telecommunications Interface are easily distinguishable within CAMS/CFS. The data elements will include Interface Types, Invoice Types, Item Types and Interface Directory Identifiers.

3.2 INT001 - Interface File Location

Maintenance values will have to be added to the INT001 Interface File Location maintenance screen. The data elements entered on the INT001 screen will associate end-users with the Telecommunications Interface and direct the input, output and report directories for the processed data batches.

3.3 PM021 - Payment Document Matching Maintenance Screen

Maintenance values will have to be added to the PM021 Payment Document Matching Maintenance screen. The data elements entered on the PM021 screen will define the supporting transactions and documents that are necessary for the disbursement of the Telecommunications Interface processed invoice records.

3.4 Telecommunications Interface Input Maintenance Table Setup

3.4.1 CTL File Definitions

The Telecommunications Interface will utilize a SQL*Loader to transfer all input data batches into Oracle intermediary tables for further processing. The SQL*Loader requires two primary files in order for the load to be successful; the data file which in our case is the input data batch and a control file. The control (CTL) file tells Oracle how to read and load the data. It tells the SQL*Loader

where to find the source data, where to load the data and information on the format of the data.

Individual CTL files will need to be created for each of the flat file Input File Formats as listed in Section 4.4.2.3 (Data Input File and Table Formats Load Mapping). In addition, PL/SQL routines will have to be developed to generate temporary tables and to move data values between flat files and temporary tables, and between unique temporary tables. Detailed information about the load routine is documented in Section 4.4.2 (Load Telecom Input File).

4 Telecommunications Interface Invoice Generation

4.1 Purpose of Telecommunications Interface Invoice Generation

All data source files will be processed through the TEL201 (Telecommunications Interface Invoice Initiation Screen) which will be used to initiate the invoice generation process. The invoice generation processes will perform multiple operations:

- It is through this process that external telecommunications charges are received, processed and eventually fed into the CFS.
- This process will successfully process positive and negative individual line items as well as overall invoice records.
- The invoice records generated through this process will be used as base data sources for telecommunication estimated accrual generation processing.
- The process provides the AP Standard Interface with the matching criterion necessary to match actual invoice records with estimated accrual shell invoices.
- The process provides the capability to attach schedule numbers to interfaced vendor invoice records. This process is handled through a combination of the TEL201 screen and the TEL201a Telecommunications Interface 'G' Schedule Selection Pop-Up processes.

The Telecommunications Interface Invoice Generation Process is comprised of multiple sub-processes. The process flow diagrams, Figure **3.0 and 4.0**, detail the sub-processes executed during the Telecommunications Interface Invoice Generation processing.

4.2 Process Flow of Telecommunications Interface Invoice Generation

The following diagrams illustrate the typical Telecommunications Interface Invoice Generation processes flow as outlined in the listing below:

- 1. Load telecommunications input files
- 2. Validate vendor information
- 3. Generate vendor crosswalk status report
- 4. Generate an Accounts Payable (AP) transaction number temporary table
- 5. Match input file records and AP transaction numbers
- 6. Query the 'G' schedule number (if applicable)
- 7. Crosswalk the FIMA to CAMS/CFS ACCS values (if necessary)
- 8. Assign default invoice values
- 9. Generate the telecommunications interface output table
- 10. Generate the invoice generation processing report

As depicted above an input data batch that contains vendor invoice records will be affected by each of the 11 sub-processes. The output of the load process will be three temporary tables (Tel_Inv_Header, Tel_Inv_Control and Tel_Inv_Detail). These three temporary tables will be manipulated throughout the invoice generation processing of the Telecommunications Interface until the final sub-process where the data values captured in the temporary tables will be copied into permanent tables for further processing by the Standard Interface.

Throughout this document the temporary tables will be referred to by different names that reflect the current stage of invoice generation processing. It is important to understand that the temporary tables have not changed only the values captured in the tables.

4.2.1 Telecommunications Interface High Level Process Flow

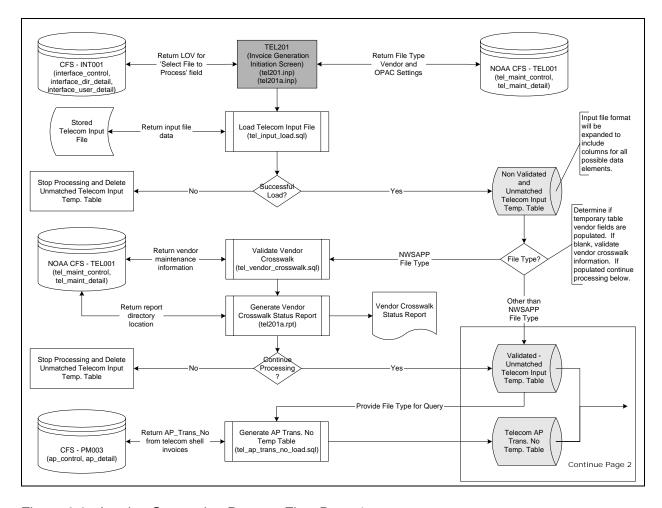


Figure 3.0 - Invoice Generation Process Flow Page 1

4.2.2 Telecommunications Interface High Level Process Flow

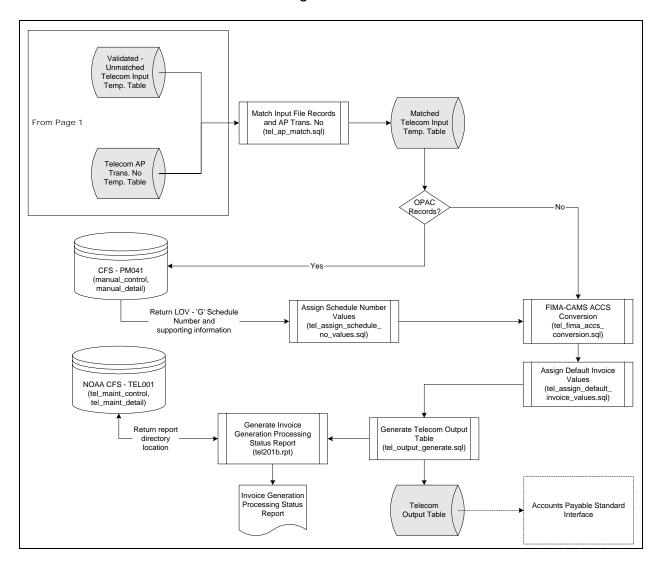


Figure 4.0 - Invoice Generation Process Flow Page 2

4.3 Input to Telecommunications Interface Invoice Generation

4.3.1 Data Input File Sources

The Telecommunications Interface is designed to process external telecommunication charges records from a multitude of data sources. The organizations that control the data sources will transfer the data files to the appropriate directory on the GS140 or electronically transfer the data to an AOD technician who will place a flat file in the appropriate directory for processing.

4.3.2 Data Input File Formats

For the purposes of the Telecommunications Interface 'File Format' will be defined as the physical structure of a data batch flat file or table. At the highest level there are input and output 'File Formats'. The 'Input File Format' refers to the data batches of telecommunications charges processed by telecommunication data sources. The document table below depicts the anticipated file format, their physical structure and their source.

The 'Input File Formats' that include FIMA are currently being used in production environments. The 'Input File Formats' that include CAMS are suggested file formats that may be deployed in production.

Input File Format	Data Structure	Data Source
NWSAPP - FIMA	Flat File	National Weather Service Automated Payment Program (NWSAPP)
NWSAPP - CAMS	Flat File	NWSAPP
TELOPS - CAMS	Table	TELOPS
BAC - FIMA	Flat File	National Weather Service (NWS)
BAC - CAMS	Flat File	NWS
DOT - FIMA	Flat File	Department of Transportation (DOT)
DOT - CAMS	Flat File	DOT
NLSC - CAMS	Table	National Logistics Support Center (NLSC)
Excel Spreadsheet - FIMA	Flat File	Various
Excel Spreadsheet - CAMS	Flat File	Various

Table 4.0 - Input File Formats

The 'Output File Format' refers to the generic table structure where all invoice records will be processed by the Telecommunications Interface. That table

structure is discussed in Section 4.4.2.2 (Processing Logic of the Non-Validated and Unmatched Telecom Input Temporary Table).

The data mapping of the 'Input File Formats' to the 'Output File Formats' is discussed in Section 4.4.2.3 (Data Input File and Table Formats Load Mapping).

4.3.3 Requirements Met in the Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page number and description of the requirement.

Requirement Number	Page	Description
DI - 1	10	The Telecommunications Interface will accept the current GSA BAC file format.
DI - 2	10	The Telecommunications Interface will accept the TELOPS system file format.
DI - 3	10	The Telecommunications Interface will accept the NWSAPP system file format.
DI - 4	11	The Telecommunications Interface will accept the Department of Transportation (DOT) file format for non-telecommunication expenses.
DI - 5	11	The Telecommunications Interface will provide a generic file format for future disbursement input files.
DI - 6	N/A	NEW REQUIREMENT - The Telecommunications Interface will accept and process the NLSC shipping costs manifest for Fedex/UPS.
CP - 14	16	The Telecommunications Interface will process credits and debits for all file types.

Table 4.1 - Requirements Met in the Previous Section

4.4 Telecommunications Interface Invoice Generation Sub-Processing Logic

4.4.1 TEL201 - Invoice Generation Initiation Screen

4.4.1.1 Form Layout

The TEL201 screen will be developed as a Character screen using Oracle Forms Version 3.0. The TEL201 screen is used to execute the invoice generation processing. The execution routine called by this screen will call all of the routines necessary to complete the processing of the input data batch records into Standard Interface ready invoice records. The screen is comprised of one data block that is used to enter processing criteria. All data input files will be processed through this screen.

4.4.1.1.1 TEL201 - Invoice Generation Initiation Screen Layout

election:	Email/Print: ■	
nterface File Type to Process:	Item_Type:	
s the Record for OPAC Payments?:	File Format:	
ile to Process/Report to Print:		
Input Date of Data Batch to Process:		
Jendor Number & ID:		
endor Name:		
rinter: Copies:	Print Time:	

Figure 5.0 - TEL201 - Invoice Generation Initiation Screen Layout

4.4.1.2 Operating Rules

The following sections describe the operating rules applicable to the TEL201 screen. Operating Rules differ from business rules in that they are directly associated with a particular operation as opposed to business rules that are associated more generally with the whole application.

4.4.1.2.1 Create a Record (Initiate the Invoice Generation Process)

- Users are allowed to select the interface file type from a list of values.
- Users are allowed to select the interface item type from a list of values based upon the interface file type and interface file format selected.
- Users are allowed to select the interface file format from a list of values based upon the interface file type selected.
- If the TEL001 maintenance record for the selected interface file type is set to accept flat files the users are allowed to select the actual file to process from a list of values based on the interface file type chosen.

- If the TEL001 maintenance record for the selected interface file type is set to accept flat files the users will not be able to select the batch number from a list of values based on the interface file type chosen.
- If the TEL001 maintenance record for the selected interface file type is set to accept Oracle Intermediary tables the users are allowed to select the batch number to process from a list of values based on the interface file type chosen.
- If the TEL001 maintenance record for the selected interface file type is set to accept Oracle Intermediary tables the users will not be able to select the actual file from a list of values based on the interface file type chosen.
- The 'Vendor' information and 'OPAC' status fields are not enterable.
- Users are able to e-mail or print current processing status reports.
- Users are able to e-mail or print previously generated Vendor Invoice Processing Status Reports and Vendor Crosswalk Status Reports from the initiation screen.

4.4.1.2.2 Modify a Record

Users are not allowed to modify a record on this screen.

4.4.1.2.3 Save a Record

Users are not allowed to save a record in this screen.

4.4.1.2.4 Delete a Record

Users are not allowed to delete a record on this screen.

4.4.1.2.5 Queries

Users are not allowed to guery on this screen.

4.4.1.3 Business Rules

The following sections describe the business rules applicable to the TEL201 screen.

- The TEL201 screen will be used to process all invoice records.
- Only the specified input file formats will be loaded by the TEL201 screen.
- Only authorized and established end-users will have access to this screen.
- Input data batches must be placed in the correct directory as established on INT001 for the Interface Type.

All input data batches that utilize an Oracle intermediary table must use the same table name as recorded in the CTL file.

4.4.1.4 Input

The following sections list all tables needed prior to executing the invoice generation process from the TEL201 screen. The table below lists the database tables where the screen is obtaining the information.

Table Name	Screen	Usage	Record Requirement
Tel_Maint_Control	TEL001	LOV	Interface File Types from active and valid header records
Tel_Maint_Vendor	TEL001	Text Box	Associated vendor information of selected interface file type and OPAC status
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid directory locations
Interface_User_Detail	INT001	Reference	Active and valid employee records
Parameter	N/A	Store Screen Values	N/A

Table 4.2 - TEL201 (Telecommunications Interface Invoice Initiation Screen) Input

4.4.1.5 Processing Logic for the TEL201 Screen

4.4.1.5.1 TEL201 Screen Processing Logic Overview

The following document table lists all screen labels and applicable field names (non-base table) within the TEL201 screen. All values will be captured in the parameter table.

Screen Label	Field Name	Type and Size
Selection	Selection	Varchar2(1)
Email/Print	Report_Form	Varchar2(1)
Select Interface File Type to Process	Select_Interface_File_Type	Varchar2(4)
Select Interface Item Type to Process	Select_Interface_Item_Type	Varchar2(6)
Select Interface File Format to Process	Select_Interface_File_Format	Varchar2(13)
Select File to Process/Report to Print	Select_File_To_Process	Varchar2(16)
Select Input Date of Data Batch to Process	Select_Input_Date	Varchar2(30)
Vendor Record(s) to Be Applied to File	Selected_Vendor_Number	Number(10)
N/A	Selected_Vendor_ID	Number(6)
N/A	Selected_Vendor_Name	Varchar2(30)
Is the Record to be Processed for OPAC Payments?	Selected_OPAC_Flag	Varchar2(1)

Screen Label	Field Name	Type and Size
Printer	Printer	Varchar2(15)
Copies	Copies	Number (3)
Print Time	Print_Time	Varchar2(20)

Table 4.3 - Overview of the Processing Logic for the TEL201 Screen

4.4.1.5.2 TEL201 Screen Processing Logic Detail Review

The following sections describe the field descriptions and the processing logic for each field associated with the TEL201 screen.

Field Property	Property Value
Screen Label	Selection
Purpose	This field captures processing selection criterion of the end-user. The user will be able to select whether they wish to process a vendor invoice data batch or print the processing status reports from a previous execution of the Telecommunications Interface vendor invoice initiation process.
Field Name	Selection
Table Name	N/A
Displayed	Yes
Format	Only display number of selection criterion.
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
List Box	'1 - Process Vendor Invoice Data Batch' '2 - Generate Report from Previous Execution'
Processing Logic	
Validation Check	See List Box
Validation Rules	See List Box, Format and Required
Tab Position	1

Field Property	Property Value
Screen Label	Email/Print
Purpose	This field captures the output report format selection criterion of the end-user. The user will be able to select whether they wish to print the report directly from the screen at the conclusion of processing or e-mail the report to their e-mail account.
Field Name	Report_Form
Table Name	N/A
Displayed	Yes
Format	Only 'E' or 'P' allowed.
Required	Value must be selected prior to execution of the process.
System Generated	No

Field Property	Property Value		
Primary Key	No		
Unique	No		
Default Value	'E'		
Screen Display Format	Screen Display Format		
List Box	'E - E-mail report to account' 'P - Send report to printer'		
Processing Logic			
Validation Check	See List Box		
Validation Rules	See List Box, Format and Required		
Tab Position	2		

Field Property	Property Value
Screen Label	Select Interface File Type to Process
Purpose	This field captures all active interface file types that have been established for the end-user on the INT001 and TEL001 screens. The end user must select the interface file type to process.
Field Name	Select_Interface_File_Type
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for Interface_Type with an Active_Status = 'Y' from the Interface_Control table on screen INT001 where the Emp_No of the end-user has been established in the Emp_No field with an Active_Status ' 'Y' from the Interface_User_Detail table on screen INT001 and File_ID = 'INPUT' from the Interface_Dir_Detail table on the screen INT001.
	Union
	Return all values for Interface_File_Type with an Active_Status = 'Y' from the Tel_Maint_Control table on screen TEL001.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	3

Field Property	Property Value
Screen Label	Select Interface Item Type to Process
Purpose	This field captures all active item types as entered on TEL001 for the selected interface file type and file format. The end user must select the item type to process.
Field Name	Select_Interface_Item_Type

Field Property	Property Value
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for Item_Type from the Tel_Maint_Control table where the global variable for the Select_Interfce_File_Type on the TEL203 screen is equal to the Interface_File_Type respectively and the Active_Status is equal to 'Y' as entered on the Tel_Maint_Control table on screen TEL001.
	If only one record is returned in the LOV populate the Select_Interface_Item_Type with that value.
	If more than one record is returned in the LOV, require the user to select a value.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	4

Field Property	Property Value
Screen Label	Select Interface File Format to Process
Purpose	This field captures all active interface file formats entered on TEL001 for the selected interface file type. The end user must select the interface file format to process.
Field Name	Select_Interface_File_Format
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	

Field Property	Property Value
LOV	Return all values for File_Format from the Tel_Maint_Control table where the global variable for the Select_Interfce_File_Type and Select_Interface_Item_Type on the TEL203 screen is equal to the Interface_File_Type and Item_Type respectively and the Active_Status is equal to 'Y' as entered on the Tel_Maint_Control table on screen TEL001. If only one record is returned in the LOV populate the Select_Interface_File_Format with that value. If more than one record is returned in the LOV, require the user to select a value.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	5

Field Property	Property Value
Screen Label	Select File to Process/Report to Print
Purpose	If the end-user selects option 1 (Process Vendor Invoice) in the Selection field this field captures all file names in the determined directory based upon the selected interface file type setup on TEL001 and INT001. The end user must select the file to process.
	If the TEL001 maintenance record is set to accept input <i>table</i> formats then this field will <i>not be</i> enterable. If the TEL001 maintenance record is set to accept input <i>file</i> formats then this field will <i>be</i> enterable.
	If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field captures all report names in the determined directory based upon the selected interface file type setup on TEL001 and INT001. The end user must select the report to print.
Field Name	Select_File_To_Process
Table Name	N/A
Displayed	Yes
Format	N/A
Required	If the end-user selects option 1 (Process Vendor Invoice) in the Selection field this value must be selected prior to execution of the process if the Record Format ASCII field on the Tel Maint Control table associated with the TEL001 screen for the selected interface file type is set to 'Y'. If the end-user selects option 1 (Process Vendor Invoice) in the Selection field
	and if the Record_Format_Table field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type is set to 'Y' then this field is not required.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	

Field Property	Property Value
LOV	If the end-user selects option 1 (Process Vendor Invoice) in the Selection field return all file names as established in the Directory Location for the File ID = 'Input' from the Interface_Dir_Detail table on the screen INT001 where the Interface Type and File Format from the Interface Control table on screen INT001 is equal to the selected interface file type and selected interface file format respectively. The selected interface file type and selected interface file format will have an Active_Status = 'Y' and Record_Format_ASCII = 'Y' from the Tel_Maint_Control table on screen TEL001.
	If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field return all report file names as established in Directory Location for the File_ID = 'Report' from the Interface_Dir_Detail table on the screen INT001 where the Interface Type and File Format from the Interface Control table on screen INT001 is equal to the selected interface file type and selected interface file format respectively. The selected interface file type and selected interface file format. When executed report files will be sent to the Unix printer as established for
Dropoging Logic	the end-user User ID.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	6, If Select_Input_Date is not accessible.

Field Property	Property Value
Screen Label	Select Input Date of Data Batch to Process
Purpose	This field captures the external 'Batch Number' of the input data batch. The external 'Batch Number' for the Telecommunications Interface will be equal to the Modification_Date from the input data batch. The Modification_Date will capture the date and the time that the input data source transferred their input data into the input data batch table for processing by the Telecommunications Interface. The end user must select the file to process.
	If the TEL001 maintenance record is set to accept <i>file</i> formats then this field will <i>not be</i> enterable. If the TEL001 maintenance record is set to accept <i>table</i> formats then this field will <i>be</i> enterable.
	This field will include date and hour values only within the input data batch table and will only be used to differentiate records prior to the pre-Telecommunications Interface invoice generation processing.
Field Name	Select_Input_Date
Table Name	N/A
Displayed	Yes
Format	DD-MON-RRRR HH:MM:SS

Field Property	Property Value
Required	If the end-user selects option 1 (Process Vendor Invoice) in the Selection field the value must be selected prior to execution of the process if the Record_Format_Table field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type is set to 'Y'. If the Record_Format_ASCII field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type and selected interface file format is set to 'Y' then this field is not required. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be accessible.
System Generated	Yes. Set as TRUNC(SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all distinct values in the Modification_Date column on the input data batch table.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	6, If Select_File_To_Process is not accessible.

Field Property	Property Value
Screen Label	Vendor Record(s) to Be Applied to File
Purpose	This non-enterable field captures the CFS Vendor Number associated with the returned input vendor code as established on TEL001. If more than one input vendor code is established on TEL001 this field will not be populated.
Field Name	Selected_Vendor_Number
Table Name	N/A
Displayed	Yes
Format	N/A
Required	N/A
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
Text Box	 ▶ If the end-user selects option 1 (Process Vendor Invoice) in the Selection field return CFS_Vendor_Number from the Tel_Maint_Vendor table of screen TEL001 where the Selected_Vendor_Name is equal to the to the Input_Vendor_Code on Tel_Maint_Vendor on screen TEL001. ▶ If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be populated.
Processing Logic	
Validation Check	See Text Box
Validation Rules	See Text Box

Field Property	Property Value
Tab Position	N/A

Field Property	Property Value
Screen Label	N/A
Purpose	This non-enterable field captures the CFS Vendor ID associated with the returned input vendor code as established on TEL001. If more than one input vendor code is established on TEL001 this field will not be populated.
Field Name	Selected_Vendor_ID
Table Name	N/A
Displayed	Yes
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
Text Box	 ▶ If the end-user selects option 1 (Process Vendor Invoice) in the Selection field return CFS_Vendor_ID from the Tel_Maint_Vendor table of screen TEL001 where the Selected_Vendor_Name is equal to the to the Input_Vendor_Code on Tel_Maint_Vendor on screen TEL001. ▶ If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be populated.
Processing Logic	
Validation Check	See Text Box
Validation Rules	See Text Box
Tab Position	N/A

Field Property	Property Value
Screen Label	N/A
Purpose	This non-enterable field captures the input vendor code based upon the selected interface file type setup on TEL001. If more than one input vendor code is established on TEL001 this field will be populated with 'Based on Input File'.
Field Name	Selected_Vendor_Name
Table Name	N/A
Displayed	Yes
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	

Field Property	Property Value
Text Box	 ▶ If the end-user selects option 1 (Process Vendor Invoice) in the Selection field return Input_Vendor_Code from the Tel_Maint_Vendor table on screen TEL001 where the Select_Interface_File_Type and the Select_Interface_File_Format is equal to the Interface_File_Type and the File_Format respectively on Tel_Maint_Control on screen TEL001 where that record is active. ▶ If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be populated.
Processing Logic	
Validation Check	See Text Box
Validation Rules	See Text Box
Tab Position	N/A

Field Property	Property Value
Screen Label	N/A
Purpose	This non-enterable field captures the OPAC Status of the maintenance record associated with the returned input vendor code as established on TEL001.
Field Name	Selected_OPAC_Flag
Table Name	N/A
Displayed	Yes
Format	Only 'Y' or 'N' allowed.
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
Text Box	 ▶ If the end-user selects option 1 (Process Vendor Invoice) in the Selection field return OPAC_Flag from the Tel_Maint_Vendor table of screen TEL001 where the Selected_Vendor_Name is equal to the to the Input_Vendor_Code on Tel_Maint_Vendor on screen TEL001. ▶ If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be populated.
Processing Logic	
Validation Check	See Text Box
Validation Rules	See Text Box and Format
Tab Position	N/A

Field Property	Property Value
Screen Label	Printer
Purpose	This field captures the default UNIX printer as established for the end-user.
Field Name	Printer
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Yes
System Generated	Yes

Field Property	Property Value		
Primary Key	No		
Unique	No		
Default Value	Default UNIX printer of the end-user		
Screen Display Format			
LOV	All available UNIX printers		
Processing Logic			
Validation Check	N/A		
Validation Rules	This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.		
Tab Position	7, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.		

Field Property	Property Value		
Screen Label	Copies		
Purpose	This field captures the number of copies that will be sent to the selected printer.		
Field Name	Copies		
Table Name	N/A		
Displayed	Yes		
Format	999		
Required	Yes		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	1		
Screen Display Format			
Text Box	Number of copies to be printed.		
Processing Logic			
Validation Check	N/A		
Validation Rules	 Cannot be greater than 999. This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field. 		
Tab Position	8, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.		

Field Property	Property Value
Screen Label	Print Time
Purpose	This field captures when the time of the current day when the print job will be executed.
Field Name	Print_Time
Table Name	N/A
Displayed	Yes
Format	DD-MON-YYYY
Required	Yes
System Generated	No
Primary Key	No

Field Property	Property Value		
Unique	No		
Default Value	System Date		
Screen Display Format			
Text Box	Desired time of the current day when the print job will be executed		
Processing Logic			
Validation Check	Cannot be prior to the system time		
Validation Rules	 Must use military time (e.g 2:00 PM = 14:00) This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field. 		
Tab Position	9, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.		

Table 4.4 - Detailed Review of the Processing Logic for the TEL201 Screen

4.4.1.6 Security

The existing CAMS/CFS menu security and the CAMS/CFS database roles will be used for implementing the security on the new screens and the objects developed, respectively.

4.4.1.7 Error Handling Messages

The following table lists the main error and warning messages applicable to the TEL201 screen.

Message No.	Туре	Text	
1	Error	Interface File Type must be entered.	
2	Error	File to be processed must be entered when the specified Interface File Type requires an ASCII flat file.	
3	Error	File to be processed cannot be entered when the specified Interface File Type requires an Oracle Intermediary table.	
4	Error	Batch Number to be processed cannot be entered when the specified Interface File Type requires an ACSII flat file.	
5	Error	Current report process is still running. Please try again later.	
6	Error	Processing did not complete successfully. Load process encountered an unexpected file format.	
7	Error	Processing did not complete successfully. Load process encountered conflicting ACCS values.	

Table 4.5 - Main Error and Warning Messages for the TEL201 Screen

4.4.1.8 Output

All data entered or selected on the TEL201 screen will be used as global variables through out the invoice generation processing. At the beginning of processing the global variables will be captured in the Parameter table.

4.4.1.9 Reports

The TEL201 process will generate two reports. The reports, Vendor Crosswalk Status Report and Invoice Generation Processing Status Report, are discussed in detail in following sections. The reports will be generated, e-mailed or printed and placed in the output directories as established on INT001 for the applicable Interface File Type at the conclusion of processing.

If the end-user elects to print a previously generated Vendor Invoice Processing Status Report or Vendor Crosswalk Status Report the report will be sent to the Unix printer of the end-user based upon User ID.

4.4.1.10 Requirements Met in the Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page number and description of the requirement.

Requirement Number	Page	Description	
O - 1	19	The Telecommunications Interface will allow users to initiate the Telecommunications Interface processes.	

Table 4.6 - Requirements Met in the Previous Section

4.4.2 Load Telecom Input File

The Tel_Input_Load routine is designed to load data from multiple input data files and/or Oracle intermediary tables into a common set of temporary tables (header, control and detail) upon which all Telecommunications Interface processing will be executed. The load routine processes data from all *defined* input file formats. See Section 4.3.2 (Data Input File Formats).

The load routine utilizes SQL*Loader. The SQL*Loader accesses the applicable CTL file, based upon the File Format selected by the end user on the TEL201 Screen. For details of the CTL file processing logic and file definitions refer to Section 2.1.7.2 (Processing Logic for the Telecommunications Interface CTL File Name Maintenance Table) and Section 3.4.1 (CTL File Definitions). The File Format will determine the expected input and output record structure. The routine will initially copy the input data file into an identically structured temporary table. Then using a PL/SQL procedure, assign the input data from the temporary table into the appropriate fields of the non-validated and unmatched telecom input temporary table (header, control and detail).

For situations where the input data is already in a table, a temporary table will not be generated. The PL/SQL procedure will assign the input data from the input table directly into the appropriate fields of the non-validated and unmatched telecom input temporary table (header, control and detail). The PL/SQL procedure will only process input records that do not have a 'Y' in the Processed_Flag field on the input data table.

The load procedure will also determine if there are accrual records included within the input data. The load procedure will access the Transaction_Code column on the input load temporary table for each record that utilizes the NWSAPP file format. It will not load any record that meets the following criteria:

- The File_Format on the Tel_Maint_Control table is equal to 'NWSAPP FIMA' or 'NWSAPP CAMS' where the Interface_File_Type on the Tel_Maint_Control table is equal to the global variable for the Select_Interface_File_Type on the TEL201 screen and;
- The Trans_Code column on the NWSAPP input load temporary table contains '10' or '11' in the first two character spaces on the column.

For all successful loads the PL/SQL procedure will assign a Batch_No to the invoice records as they are assigned to the header, control and detail tables of the non-validated and unmatched telecom input temporary table. It will also assign a Trans_No to each invoice record on the Tel_Inv_Control table and its corresponding record on the Tel_Inv_Detail table. Refer to Section 4.4.2.2 (Processing Logic of the Non-Validated and Unmatched Telecom Input Temporary Table) for details about the Batch_No and Trans_No format.

The PL/SQL procedure will also read all of the input data to determine if there are any parent/child relationships that need to be established between the Tel_Inv_Control and Tel_Inv_Detail table. The procedure will access the Reference_No, Invoice_Date and Vendor_Code columns on the Tel_Inv_Control table to determine if there are any duplicate combinations of the three columns.

If duplicate combinations are detected the detail records for each will be assumed to be a 'child' of the first control record (parent). The Detail_Seq_No and Item_No on the Tel_Inv_Detail table and the Line_Item_Count on the Tel_Inv_Control table will be updated based on the relationship. The duplicate control records will be removed from the Tel_Inv_Control table.

If duplicate combinations are not detected the Telecommunications Interface will assume that each input record is a separate invoice record.

The data source input record batch will remain in the input directory (for flat files) or in the input Oracle intermediary table (for tables) until the entire

Telecommunications Interface processing is complete. At the conclusion of processing the input data batch will be archived in the archive directory if the input data batch is a flat file. If the input data batch is an Oracle intermediary table the input data will be maintained in the table. At the conclusion of processing the Processed_Flag will be updated to 'Y'. Please refer to Section 4.4.10.2 (Processing Logic of the

Tel_Assign_Default_Invoice_Values_Routine) for more information about this process. Flat file input data batches will be maintained within the archive directory for three years. The directory locations are maintained on the INT001 screen based upon the interface file type.

The non-validated and unmatched telecom input temporary table is manipulated and refined throughout the Telecommunications Interface process. At the conclusion of processing the temporary table data is captured in an Oracle Intermediary table for further processing by the Standard Interface.

4.4.2.1 Input

The following sections list all tables needed prior to the execution of the Tel_Input_Load routine. The table below lists the database tables that will be accessed by the load routine.

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Header	N/A	Temporary Transaction Table	Record values captured in the header table of the non-validated and unmatched telecom input temporary table
Tel_Inv_Control	N/A	Temporary Transaction Table	Record values captured in the control table of the non-validated and unmatched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Record values captured in the detail table of the non-validated and unmatched telecom input temporary table
Tel_Maint_Control	TEL001	Reference	Interface File Types from active and valid header records
Tel_Maint_Vendor	TEL001	Reference	Associated vendor information of selected interface file type and OPAC status
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid employee records
Interface_User_Detail	INT001	Reference	Active and valid directory locations
Tel_Maint_Input	N/A	Reference	Valid input information (CTL table name and PL/SQL routines)
Parameter	N/A	Store Screen Values	N/A

Table 4.7 - Tel_Input_Load Routine Input Tables

4.4.2.2 Processing Logic of the Non-Validated and Unmatched Telecom Input Temporary Table

The following tables describe the field descriptions of the non-validated and unmatched telecom input temporary table. The header, control and detail table structures mimic that of the Standard Interface Vendor Invoice Transaction Intermediary tables that are associated with the CAMS/CFS PM003 screen. The non-validated and unmatched telecom input temporary table also includes columns to capture input record specific information such as the FIMA accounting codes and other values that would not normally be captured within the Standard Interface Vendor Invoice Transaction Intermediary tables.

4.4.2.2.1 Tel Inv Header Table Overview

The document table below describes the header table of the non-validated and unmatched telecom input temporary table Tel_Inv_Header.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the Vendor Invoice Transaction data batch. Primary Key of the table.
Interfacing_System	Varchar2(20)	The interfacing system from which the input data batch is transferred to the Standard Interface.
Trans_Count	Number(6)	Number of transactions transferred in the data batch.
Batch_Total	Number(13,2)	Total amount of all vendor invoice transactions being transmitted. Should be the total of all Amount fields on the control record types.
Office_Code	Varchar2(6)	Payment Office Code for which the data batch is transferred.
User_Name	Varchar2(30)	User name of the individual who last modified the invoice record in a financial system.
Modification_Date	Date	Date the invoice record was last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 4.8 - Overview Processing Logic for the Non-Validated and Unmatched Telecom Input Temporary Table Header Table (Tel Inv Header)

4.4.2.2.2 Tel Inv Header Table Detailed Review

The document table below describes the processing logic for the columns of the header table (Tel_Inv_Header) of the non-validated and unmatched telecom input temporary table that are affected by the load routine. Columns not affected by the load routine are described in later sections.

Column Property	Property Value	
Purpose	Primary Key of the table. This field will capture a sequentially generated number that will be applied to all records within the input data batch. Assigned by Tel_Input_Load routine based upon the Standard Interface rules. This value can be populated with any value during the load routine. This value will be overwritten during the Tel_Assign_Default_Invoice_Values routine based upon the sequence value as captured in the MSI_M00_HEADER_BATCH_NO_SEQ.	
Field Name	Batch_No	
Table Name	Tel_Inv_Header	
Displayed	N/A	
Format	N/A	
Required	Yes	
System Generated	Yes	
Primary Key	Yes	
Unique	Yes	
Default Value	1	
Processing Logic		
Validation Check	See Required and Unique	
Validation Rules	See Required and Unique	

Table 4.9 - Detailed Review Processing Logic for the Non-Validated and Unmatched Telecom Input Temporary Table Header Table (Tel_Inv_Header)

4.4.2.2.3 Tel Inv Control Table Overview

The document table below describes the control table of the non-validated and unmatched telecom input temporary table Tel_Inv_Control.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the Vendor Invoice Transaction data batch. Part of the Primary Key of the table.
Trans_No	Number(8)	Telecommunications Interface sequentially generated number. Part of the Primary Key of the table.

Field Name	Type and Size	Description
Line_Item_Count	Number(6)	Indicates the total number of line item/MDL records that are associated with the vendor invoice.
AP_Trans_No	Number(8)	CAMS/CFS associated vendor invoice transaction number.
Bureau_Code	Number(2)	CAMS/CFS bureau code.
Invoice_Type	Varchar2(6)	CAMS/CFS invoice type.
Invoice_No	Varchar2(20)	The associated invoice number for the vendor invoice.
Sub_Invoice_No	Number(4)	Used to reference a single invoice for multiple purchase orders.
Vendor_No	Number(10)	CAMS/CFS vendor identification code.
Vendor_ID	Number(6)	CAMS/CFS code used to identify a vendor address.
Invoice_Date	Date	Transaction Date as supplied on the input record.
		Will be used as the Invoice Date (Invoice_Date) on PM003 (AP_Control) in CAMS/CFS.
Received_Date	Date	The date the proper invoice was received.
Document_Source	Varchar2(6)	The source document type.
Po_Type	Varchar2(6)	The type of document associated with the Document_Source.
Po_No	Number(8)	Match document PO Number associated with the vendor invoice.
Release_No	Number(3)	PO release number.
Approp_Symbol	Varchar2(21)	CAMS/CFS appropriation symbol for making payment to another Federal type vendor via an SF1080/1081.
Agency_Location_Code	Varchar2(10)	CAMS/CFS agency location code.
Fastpay_Flag	Varchar2(1)	Flag indicating whether the invoice is subject to the Fast Pay.
Prompt_Pay_Flag	Varchar2(1)	Flag indicating whether the invoice is subject to the Prompt Pay Act.
Net_Days1	Number(2)	Net payment days for the first set of payment terms.
Discount_Flag1	Varchar2(1)	Indicates whether the discount is a percent (P) or amount (A).
Discount_Amount1	Number(8,3)	The percent or amount of the discount (based on the amount in the Discount_Flag1 field).
Discount_Days1	Number(2)	Discount days for the first set of payment terms.

Field Name	Type and Size	Description
Net_Days2	Number(2)	Net payment days for the
		second set of payment terms.
Discount_Flag2	Varchar2(1)	Indicates whether the discount
		is a percent (P) or amount (A).
Discount_Amount2	Number(8,3)	The percent or amount of the
		discount (based on the amount
D: 1 D 0	N (0)	in the Discount_Flag2 field).
Discount_Days2	Number(2)	Discount days for the second
D () / L 0(00)	set of payment terms.
Reference_No	Varchar2(20)	FIMA Document Number as
		supplied on the input record.
		Will be used as the Source
		Reference Number
		(Reference_No) on PM003
		(AP_Control) in CAMS/CFS.
Invoice Amount	Number(13,2)	The total amount on the invoice
		from the vendor.
Net_Invoice_Amount	Number(13,2)	The total sum of the line item
	, , ,	amounts of the invoice.
		Calculated value of all line item
		amounts (Line_Item_Amount)
		associated with the vendor
		invoice.
Approved_Flag	Varchar2(1)	Approval status of the vendor
II N	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	invoice.
User_Name	Varchar2(30)	User name of the individual who
		last modified the invoice record in a financial system.
		in a ilianciai system.
Modification Date	Date	Date the invoice record was last
		modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows
	(,	98).
Input_Vendor_Code	Varchar2(16)	Input Vendor Code.
-	` '	

Table 4.10 - Overview Processing Logic for the Non-Validated and Unmatched Telecom Input Temporary Table Control Table (Tel_Inv_Control)

4.4.2.2.4 Tel_Inv_Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_Inv_Control) of the non-validated and unmatched telecom input temporary table that are affected by the load routine. Columns not affected by the load routine are described in later sections.

Column Property	Property Value
Purpose	The field will be used as the part of the primary key of the input data batch. It will capture a sequentially generated number that will be applied to all records within the input data batch. Foreign key referencing the header table. Assigned by Tel_Input_Load routine based upon the Standard Interface rules. This value can be populated with any value during the load routine. This value will be overwritten during the Tel_Assign_Default_Invoice_Values routine based upon the sequence value as captured in the MSI_M00_HEADER_BATCH_NO_SEQ.
Field Name	Batch_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Must be unique from other input data batches.
Default Value	1
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	The field will be used as the part of the primary key of the initial load of the input data batch. It will generate a unique sequential number that will be applied to the control and corresponding detail record for each invoice record within the input data batch. Will be assigned during the Tel_Input_Load routine.
Field Name	Trans_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Must be unique within the control record during the initial load.
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Screen Label	N/A
Purpose	This field will capture the total number of line items/MDLs that are attached to the invoice record. This field will be calculated based upon the number of detail records associated with the control record. Will be assigned during the Tel_Input_Load routine.

Column Property	Property Value
Field Name	Line_Item_Count
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value	
Purpose	The field will capture the invoice number of the record. This field will be populated by the Tel_Input_Load routine if provided in the input data batch. Only non-OPAC input record formats will include the invoice number. OPAC input record formats will not include an invoice number. If the Invoice_No field is NULL after the load routine this field will be populated during the Tel_Assign_Default_Invoice_Values routine.	
Field Name	Invoice_No	
Table Name	Tel_Inv_Control	
Displayed	N/A	
Format	N/A	
Required	No	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required.	
Validation Rules	 Invoice_No and Sub_invoice_No combination must be unique. Cannot contain characters '/', '*' or 'RMT'. 	

Column Property	Property Value
Purpose	This field captures the transaction date of the vendor invoice as supplied on the input data batch. Will be assigned during the Tel_Input_Load routine.
Field Name	Invoice_Date
Table Name	Tel_Inv_Control
Displayed	N/A
Format	DD-MON-RRRR
Required	Yes
System Generated	No
Primary Key	No
Unique	No

Column Property	Property Value	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value	
Purpose	This field will capture the FIMA Document Number of the invoice record. Will be assigned during the Tel_Input_Load routine.	
Field Name	Reference_No	
Table Name	Tel_Inv_Control	
Displayed	N/A	
Format	N/A	
Required	Yes	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field captures the vendor code (vendor name) as recognized by the input data system. The Telecommunications Interface will utilize the crosswalk capability to align the Input_Vendor_Code with the CAMS/CFS Vendor Name, Vendor Number and Vendor ID. If available, will be assigned during the Tel_Input_Load routine.
Field Name	Input_Vendor_Code
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Table 4.11 - Detailed Review Processing Logic for the Non-Validated and Unmatched Telecom Input Temporary Table Control Table (Tel_Inv_Control)

4.4.2.2.5 Tel_Inv_Detail Table Overview

The document table below describes the detail table of the non-validated and unmatched telecom input temporary table Tel_Inv_Detail.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the Vendor Invoice Transaction data batch. Part of the Primary Key of the table.
Trans_No	Number(8)	Telecommunications Interface sequentially generated number. Part of the primary key of the table.
Detail_Seq_No	Number(8)	Vendor Invoice Transaction sequential number. Part of the primary key of the table.
Item_No	Number(3)	The item number for the detail line of the vendor invoice.
Item_Type	Varchar2(6)	The item type for the detail line of the vendor invoice.
Line_No	Number(3)	The Multiple Distribution Line (MDL) number for the detail line of the vendor invoice.
RI_Method	Varchar2(1)	Indicates whether the line item is (Q) quantity or (D) dollar based.
Default_Matching_Flag	Varchar2(1)	Indicates whether default matching should be used or not.
PO_Flag	Varchar2(1)	Indicates whether the vendor invoice should be matched against a Purchase Order document or not.
RT_Flag	Varchar2(1)	Indicates whether the vendor invoice should be matched against a Receiving Ticket document or not.
AC_Flag	Varchar2(1)	Indicates whether the vendor invoice should be matched against a Acceptance document or not.
Prompt_Pay_Type	Varchar2(6)	Prompt pay type for this item.
Trade_In	Varchar2(1)	Indicates whether the line item is a trade in or not.
V1099_Flag	Varchar2(1)	Indicates whether the line item is included on a vendor 1099 or not.
Withhold_Flag	Varchar2(1)	Indicates whether the line item is a withhold item or not.
Withhold_Percent	Number(4,2)	Indicates the percent of the line item to withhold.
Discount_Flag	Varchar2(1)	Indicates whether the line item is subject to a discount or not.

Field Name	Type and Size	Description
Holdback_Flag	Varchar2(1)	Indicates whether the line item is subject to a holdback or not.
Holdback_Amount	Number(13,2)	Indicates the amount of holdback.
Holdback_Type	Varchar2(1)	Identifies the type of holdback.
Emp_No	Number(6)	Employee number associated with this line item.
Fiscal_Year	Number(4)	Fiscal Year as supplied on the invoice record.
GL_End_Date	Date	The GL period under which the transaction will fall.
Project_Code	Varchar2(7)	Project Code portion of ACCS.
Task_Code	Varchar2(3)	Task Code portion of ACCS.
Org1_Code	Varchar2(2)	Org1 portion of ACCS.
Org2_Code	Varchar2(2)	Org2 portion of ACCS.
Org3_Code	Varchar2(4)	Org3 portion of ACCS.
Org4_Code	Number(2)	Org4 portion of ACCS.
Org5_Code	Number(2)	Org5 portion of ACCS.
Org6_Code	Number(2)	Org6 portion of ACCS.
Org7_Code	Number(2)	Org7 portion of ACCS.
Object1_Code	Number(2)	Object 1 portion of ACCS.
Object2_Code	Number(2)	Object 2 portion of ACCS.
Object3_Code	Number(2)	Object 3 portion of ACCS.
Object4_Code	Number(2)	Object 4 portion of ACCS.
User_Define_Accs	Number(6)	User defined portion of ACCS.
Qty	Number(9,3)	Quantity for this account distribution.
Unit_Price	Number(12,4)	The unit price for this account distribution.
Line_Item_Amount	Number(13,2)	Line item amount.
Item Descr	Varchar2(240)	Description of the MDL.
Schedule_Type	Varchar2(6)	Type of the SF1166 schedule.
Schedule_No	Varchar2(15)	The Schedule Number of the Item/MDL.
Schedule_Date	Date	The date of the Schedule Number of the Item/MDL.
Payment_Office_Code	Varchar2(6)	Payment Office Code.
Center_Code	Varchar2(6)	Center Code.
Payment_Enclosure	Varchar2(1)	Payment Enclosure Flag.
Payment_Type	Varchar2(6)	Payment Type.
User_Name	Varchar2(30)	User name of the individual who last modified the invoice record in a financial system.
Modification_Date	Date	Date the invoice record was last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).
FIMA_Org_Code	Varchar2(6)	FIMA Organizational Code.
FIMA_Task_Code	Varchar2(6)	FIMA Task Code.
·	Vaionai2(0)	i iivii t i dolt oodo.

Field Name	Type and Size	Description
FIMA_Phase_Code	Varchar2(2)	FIMA Phase Code.
FIMA_Obj_Class	Varchar2(4)	FIMA Object Class.

Table 4.12 - Overview Processing Logic for the Non-Validated and Unmatched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail)

4.4.2.2.6 Tel_Inv_Detail Table Detailed Review

The document table below describes the processing logic for the columns of the detail table (Tel_Inv_Detail) of the non-validated and unmatched telecom input temporary table that are affected by the load routine. Columns not affected by the load routine are described in later sections.

Column Property	Property Value
Purpose	The field will be used as the part of the primary key of the input data batch. It will capture a sequentially generated number that will be applied to all records within the input data batch. Foreign key referencing the control table. Assigned by Tel_Input_Load routine based upon the Standard Interface rules. This value can be populated with any value during the load routine. This value will be overwritten during the Tel_Assign_Default_Invoice_Values routine based upon the sequence value as captured in the MSI_MOO_HEADER_BATCH_NO_SEQ.
Field Name	Batch_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Must be unique from other input data batches.
Default Value	1
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	The field will be used as the part of the primary key of the initial load of the input data batch. It will generate a unique sequential number that will be applied to the control and corresponding detail record for each invoice record within the input data batch. Will be assigned during the Tel_Input_Load routine.
Field Name	Trans_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes

Column Property	Property Value
System Generated	Yes
Primary Key	Yes
Unique	Must be unique within the detail record during initial load.
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	The field will be used as the part of the primary key of the processing temporary table. It will capture a sequential number of the vendor invoice records within the input data batch. Will be assigned during the Tel_Input_Load routine.
Field Name	Detail_Seq_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	The field will capture a unique sequential number that will be applied to the detail record(s) for each parent child relationship within the input data batch. Will be assigned during the Tel_Input_Load routine.
Field Name	Item_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	The field will capture the Fiscal Year if supplied on the input data batch and will be assigned during the Tel_Input_Load routine. If not supplied on the input data batch this field will be calculated based upon the Invoice_Date on the Tel_Inv_Control table for the applicable record during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Fiscal_Year
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Project Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Project_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 1 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org1_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No

Column Property	Property Value	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	N/A	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 2 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org2_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 3 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org3_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 4 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org4_Code

Column Property	Property Value
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 5 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org5_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 6 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org6_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 7 Organization Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Org7_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 1 Object Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Object1_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 2 Object Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Object2_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No

Column Property	Property Value
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the CAMS/CFS Level 3 Object Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Object3_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value				
Purpose	This field captures the CAMS/CFS Level 4 Object Code if available from the input record. If not supplied by the Input Data Batch will be assigned during the Tel_FIMA_ACCS_Conversion routine.				
Field Name	Object4_Code				
Table Name	Tel_Inv_Detail				
Displayed	N/A				
Format	N/A				
Required	No				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	N/A				
Validation Rules	N/A				

Column Property	Property Value	
Purpose	This field will capture the disbursement amount of the line item. Will be assigned during the Tel_Input_Load routine.	
Field Name	Unit_Price	
Table Name	Tel_Inv_Detail	
Displayed	N/A	

Column Property	Property Value				
Format	N/A				
Required	Yes				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	The Unit_Price field will accept amounts up to \$99,999,999.9999. Any value that is greater than that amount will not be successfully loaded into the Telecommunications Interface for processing. This is due to the format of the Unit_Price field within the Standard Interface, the structure of which we mimicked for the Telecommunications Interface.				
Validation Rules	N/A				

Column Property	Property Value				
Purpose	This field captures the various data elements that are supplied by the input data sources, but are not readily needed within CAMS/CFS to differentiate the records. The values captured in the field will be accessible to end users for research purposes. Will be assigned during the Tel_Input_Load routine.				
Field Name	Item_Description				
Table Name	Tel_Inv_Detail				
Displayed	N/A				
Format	N/A				
Required	No				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	N/A				
Validation Rules	N/A				

Column Property	Property Value				
Purpose	This field captures the FIMA Organizational Code if available from the input record. Otherwise will remain blank.				
Field Name	FIMA_Org_Code				
Table Name	Tel_Inv_Detail				
Displayed	N/A				
Format	N/A				
Required	No				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	N/A				

Column Property	Property Value		
Validation Rules	 Field must be 'NULL' if CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) are populated. CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) must be 'NULL' if FIMA_Org_Code is populated. 		

Column Property	Property Value				
Purpose	This field captures the FIMA Task Code if available from the input record. Otherwise will remain blank.				
Field Name	FIMA_Task_Code				
Table Name	Tel_Inv_Detail				
Displayed	N/A				
Format	N/A				
Required	No				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	N/A				
Validation Rules	 Field must be 'NULL' if CAMS/CFS ACCS fields (Bureau_Code, OrgOrg7_Code, Program1 - Program4_Code, Project_Code, Task_CodObject1 - Object4_Code) are populated. CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) must be 'NULL' if FIMA_Task_Code is populated. 				

Column Property	Property Value			
Purpose	This field captures the FIMA Phase Code if available from the input record. Otherwise will remain blank.			
Field Name	FIMA_Phase_Code			
Table Name	Tel_Inv_Detail			
Displayed	N/A			
Format	N/A			
Required	No			
System Generated	No			
Primary Key	No			
Unique	No			
Default Value	N/A			
Processing Logic				
Validation Check	N/A			

Column Property	Property Value		
Validation Rules	 Field must be 'NULL' if CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) are populated. CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) must be 'NULL' if FIMA_Phase_Code is populated. 		

Column Property	Property Value				
Purpose	This field captures the FIMA_Obj_Class if available from the input record. Otherwise will remain blank.				
Field Name	FIMA_Obj_Class				
Table Name	Tel_Inv_Detail				
Displayed	N/A				
Format	N/A				
Required	No				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	N/A				
Validation Rules	 Field must be 'NULL' if CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) are populated. CAMS/CFS ACCS fields (Bureau_Code, Org1 - Org7_Code, Program1 - Program4_Code, Project_Code, Task_Code, Object1 - Object4_Code) must be 'NULL' if FIMA_Obj_Class is populated. 				

Table 4.13 - Detailed Review Processing Logic for the Non-Validated and Unmatched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail)

4.4.2.3 Data Input File and Table Formats Load Mapping

The document tables below will identify the specific columns on the non-validated and unmatched telecom temporary table where each of the file and table formats will map their input data. Only the columns that will be populated by the load routine will be documented below.

4.4.2.3.1 NWSAPP - FIMA File to Table Load Mapping

Input Field	File	Temporary Column	Output Column	Output Table
Name	Positions	Name	Name	Name
Bill Date	1 - 8	Bill_Date	Invoice_Date	Tel_Inv_Control
(mm/dd/yy)				
Document Number	9 - 17	Document_No	Reference_No	Tel_Inv_Control
Fiscal Year (yy)	18 - 19	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
Organization Code	20 - 25	Organization_Code	FIMA_Org_Code	Tel_Inv_Detail

Input Field	File	Temporary Column	Output Column	Output Table
Name	Positions	Name	Name	Name
Task Code	26 - 31	Task_Code	FIMA_Task_Code	Tel_Inv_Detail
Phase Code	32 - 33	Phase_Code	FIMA_Phase_Code	Tel_Inv_Detail
Object Code	34 - 37	Object_Code	FIMA_Object_Class	Tel_Inv_Detail
Amount (10,2)	38 - 47	Amount	Unit_Price	Tel_Inv_Detail
Secondary	48 - 56	Secondary_Reference_	Item_Descr	Tel_Inv_Detail
Reference Number		Number		
Transaction Code	57 - 58	Transaction_Code	Item_Descr	Tel_Inv_Detail
Reference Number	59 - 74	Reference_Number	Invoice_No	Tel_Inv_Control
Vendor Code	75 - 90	Vendor_Code	Input_Vendor_Code	Tel_Inv_Detail

Table 4.14.1 - NWSAPP - FIMA File to Table Load Mapping

The data fields 'Secondary Reference Number' and 'Transaction Code' will be loaded into the Item_Description column on the Tel_Inv_Detail table of the non-validated and unmatched telecom temporary table. The 'Transaction Code' will be captured in the first two characters of the Item_Descr column within the table followed by the 'Secondary Reference Number'.

4.4.2.3.2 NWSAPP - CAMS File to Table Load Mapping

Input Field	File	Temporary	Output Column	Output Table
Name	Positions	Column Name	Name	Name
Bill Date	1 - 8	Bill_Date	Invoice_Date	Tel_Inv_Control
(mm/dd/yy)				
Document Number	9 - 17	Document_No	Reference_No	Tel_Inv_Control
Fiscal Year (yy)	18 - 21	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
Bureau_Code	22 - 23	Bureau_Code	Bureau_Code	Tel_Inv_Control
CFS_Org_Code_1	24 - 25	CFS_Org_Code_1	Org1_Code	Tel_Inv_Detail
CFS_Org_Code_2	26 - 27	CFS_Org_Code_2	Org2_Code	Tel_Inv_Detail
CFS_Org_Code_3	28 - 31	CFS_Org_Code_3	Org3_Code	Tel_Inv_Detail
CFS_Org_Code_4	32 - 33	CFS_Org_Code_4	Org4_Code	Tel_Inv_Detail
CFS_Org_Code_5	34 - 35	CFS_Org_Code_5	Org5_Code	Tel_Inv_Detail
CFS_Org_Code_6	36 - 37	CFS_Org_Code_6	Org6_Code	Tel_Inv_Detail
CFS_Org_Code_7	38 - 39	CFS_Org_Code_7	Org7_Code	Tel_Inv_Detail
CFS_Project_Code	40 - 46	CFS_Project_Code	Project_Code	Tel_Inv_Detail
CFS_Task_Code	47 - 49	CFS_Task_Code	Task_Code	Tel_Inv_Detail
CFS_Object_Class _1	50 - 51	CFS_Object_Class_1	Object1_Code	Tel_Inv_Detail
CFS_Object_Class _2	52 - 53	CFS_Object_Class_2	Object2_Code	Tel_Inv_Detail
CFS_Object_Class _3	54 - 55	CFS_Object_Class_3	Object3_Code	Tel_Inv_Detail
CFS_Object_Class _4	56 - 57	CFS_Object_Class_4	Object4_Code	Tel_Inv_Detail
User_Define_ACC S	58 - 63	User_Define_ACCS	User_Define_ACCS	Tel_Inv_Detail
Amount (10,2)	64 - 76	Amount	Unit_Price	Tel_Inv_Detail
Secondary Reference Number	77 - 85	Secondary_Reference _Number	Item_Descr	Tel_Inv_Detail

Input Field	File	Temporary	Output Column	Output Table
Name	Positions	Column Name	Name	Name
Transaction Code	86 - 87	Transaction_Code	Item_Descr	Tel_Inv_Detail
Reference Number	88 - 103	Reference_Number	Invoice_No	Tel_Inv_Control
Vendor Code	104 - 119	Vendor_Code	Input_Vendor_Code	Tel_Inv_Detail
Item_Description	120 - 316	Item_Descr	Item_Descr	Tel_Inv_Detail
User_Name	317 - 346	User_Name	User_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
Modification_Date (mm-dd-rrrr hh:mi:ss PM)	347 - 403	Modification_Date	Modification_Date	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
Device_Name	404 - 433	Device_Name	Device_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail

Table 4.14.2 - NWSAPP - CAMS File to Table Load Mapping

4.4.2.3.3 TELOPS - CAMS Table to Table Load Mapping

Input Column Name	Type and Size	Output Column	Output Table
		Name	Name
Bill_Date	Date	Invoice_Date	Tel_Inv_Control
Reference_Number	Varchar2(20)	Reference_No	Tel_Inv_Control
Fiscal_Year	Number(4)	Fiscal_Year	Tel_Inv_Detail
Invoice_Number	Varchar2(20)	Invoice_No	Tel_Inv_Control
Bureau_Code	Number(2)	Bureau_Code	Tel_Inv_Control
CFS_Org_Code_1	Varchar2(2)	Org1_Code	Tel_Inv_Detail
CFS_Org_Code_2	Varchar2(2)	Org2_Code	Tel_Inv_Detail
CFS_Org_Code_3	Varchar2(4)	Org3_Code	Tel_Inv_Detail
CFS_Org_Code_4	Number(2)	Org4_Code	Tel_Inv_Detail
CFS_Org_Code_5	Number(2)	Org5_Code	Tel_Inv_Detail
CFS_Org_Code_6	Number(2)	Org6_Code	Tel_Inv_Detail
CFS_Org_Code_7	Number(2)	Org7_Code	Tel_Inv_Detail
CFS_Project_Code	Varchar2(7)	Project_Code	Tel_Inv_Detail
CFS_Task_Code	Varchar2(3)	Task_Code	Tel_Inv_Detail
CFS_Object_Class_1	Number(2)	Object1_Code	Tel_Inv_Detail
CFS_Object_Class_2	Number(2)	Object2_Code	Tel_Inv_Detail
CFS_Object_Class_3	Number(2)	Object3_Code	Tel_Inv_Detail
CFS_Object_Class_4	Number(2)	Object4_Code	Tel_Inv_Detail
User_Define_ACCS	Number(6)	User_Define_ACCS	Tel_Inv_Detail
Disb_Amount	Varchar2(13,2)	Unit_Price	Tel_Inv_Detail
Item_Description	Varchar2(240)	Item_Descr	Tel_Inv_Detail
Vendor_Code	Varchar2(16)	Input_Vendor_Code	Tel_Inv_Control
User_Name	Varchar2(30)	User_Name	Tel_Inv_Header,
			Tel_Inv_Control,
			Tel_Inv_Detail
Modification_Date	Date:Time	Modification_Date	Tel_Inv_Header,
			Tel_Inv_Control,
			Tel_Inv_Detail
Device_Name	Varchar2(30)	Device_Name	Tel_Inv_Header,
			Tel_Inv_Control,
			Tel_Inv_Detail

Input Column Name	Type and Size	Output Column	Output Table
		Name	Name
Processed_Flag	Varchar2(1)	N/A	N/A

Table 4.14.3 - TELOPS - CAMS Table to Table Load Mapping

The TELOPS - CAMS input table will be created and maintained within the CAMS/CFS production environment. Unlike the input data batches that utilize ASCII flat files, the input data captured within this table will not be archived in a separate directory upon the completion of processing. The Processed_Flag field will not be populated during the load phase. At the conclusion of all Telecommunications Interface vendor invoice generation processing the Processed_Flag will be updated with 'Y' to ensure the load process does not attempt to process the same records multiple times.

4.4.2.3.4 BAC - FIMA File to Table Load Mapping

Input Field	File	Temporary Column	Output Column	Output Table
Name	Positions	Name	Name	Name
Date (mm/dd/yy)	1 - 8	Bill_Date	Invoice_Date	Tel_Inv_Control
Docnum	9 - 17	Document_No	Reference_No	Tel_Inv_Control
Org_Code	18 - 23	Organization_Code	FIMA_Org_Code	Tel_Inv_Detail
Acct_Fil1	24	N/A	N/A	N/A
Task_No	25 - 30	Task_Code	FIMA_Task_Code	Tel_Inv_Detail
Phase_No	31 - 32	Phase_Code	FIMA_Phase_Code	Tel_Inv_Detail
Acct_Fil2	33	N/A	N/A	N/A
Obj_Class	34 - 37	Object_Code	FIMA_Object_Class	Tel_Inv_Detail
Disbursed (12,4) [with '\$']	38 - 52	Amount	Unit_Price	Tel_Inv_Detail
Accrual	53 - 67	N/A	N/A	N/A
Sec_Ref_No	68 - 76	Secondary_Reference_ Number	Item_Descr	Tel_Inv_Detail
Acct_Fil3	77	N/A	N/A	N/A
New_Acct	78 - 80	N/A	N/A	N/A

Table 4.14.4 - BAC - FIMA File To Table Load Mapping

4.4.2.3.5 BAC - CAMS File to Table Load Mapping

Input Field	File	Temporary	Output Column	Output Table
Name	Positions	Column Name	Name	Name
Bill Date (mm/dd/yy)	1 - 8	Bill_Date	Invoice_Date	Tel_Inv_Control
Document Number	9 - 17	Document_No	Reference_No	Tel_Inv_Control
Fiscal Year (yyyy)	18 - 21	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
Bureau_Code	22 - 23	Bureau_Code	Bureau_Code	Tel_Inv_Control
CFS_Org_Code_1	24 - 25	CFS_Org_Code_1	Org1_Code	Tel_Inv_Detail
CFS_Org_Code_2	26 - 27	CFS_Org_Code_2	Org2_Code	Tel_Inv_Detail
CFS_Org_Code_3	28 - 31	CFS_Org_Code_3	Org3_Code	Tel_Inv_Detail
CFS_Org_Code_4	32 - 33	CFS_Org_Code_4	Org4_Code	Tel_Inv_Detail

Input Field	File	Temporary	Output Column	Output Table
Name	Positions	Column Name	Name	Name
CFS_Org_Code_5	34 - 35	CFS_Org_Code_5	Org5_Code	Tel_Inv_Detail
CFS_Org_Code_6	36 - 37	CFS_Org_Code_6	Org6_Code	Tel_Inv_Detail
CFS_Org_Code_7	38 - 39	CFS_Org_Code_7	Org7_Code	Tel_Inv_Detail
CFS_Project_Code	40 - 46	CFS_Project_Code	Project_Code	Tel_Inv_Detail
CFS_Task_Code	47 - 49	CFS_Task_Code	Task_Code	Tel_Inv_Detail
CFS_Object_Class	50 - 51	CFS_Object_Class_1	Object1_Code	Tel_Inv_Detail
CFS_Object_Class _2	52 - 53	CFS_Object_Class_2	Object2_Code	Tel_Inv_Detail
CFS_Object_Class _3	54 - 55	CFS_Object_Class_3	Object3_Code	Tel_Inv_Detail
CFS_Object_Class _4	56 - 57	CFS_Object_Class_4	Object4_Code	Tel_Inv_Detail
User_Define_ACC S	58 - 63	User_Define_ACCS	User_Define_ACCS	Tel_Inv_Detail
Amount (12,4) [with '\$']	64 - 76	Amount	Unit_Price	Tel_Inv_Detail
Secondary Reference Number	77 - 85	Secondary_Reference _Number	Item_Descr	Tel_Inv_Detail
Item_Description	86 - 316	Item_Descr	Item_Descr	Tel_Inv_Detail
User_Name	317 - 346	User_Name	User_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
Modification_Date (mm-dd-rrrr hh:mi:ss PM)	347 - 403	Modification_Date	Modification_Date	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
Device_Name	404 - 433	Device_Name	Device_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail

Table 4.14.5 - BAC - CAMS File to Table Load Mapping

4.4.2.3.6 DOT - FIMA File to Table Load Mapping

The DOT - FIMA input file format will use a 'comma' delimited format.

Order	Input Field Name	Format	Temporary	Output	Output
			Column	Column Name	Table Name
			Name		
1	Bill_Date	Date (dd-	Bill_Date	Invoice_Date	Tel_Inv_Contr
		mon-yyyy)			ol
2	Document_Number	Varchar	Document_No	Referemce_No	Tel_Inv_Contr
					ol
3	Fiscal_Year	Number	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
		(yyyy)			
4	Secondary_Reference_	Varchar	Secondary_R	Invoice_No	Tel_Inv_Contr
	Number		eference_Nu		ol
			mber		
5	FIMA_Org_Code	Varchar	FIMA_Org_Co	FIMA_Org_Code	Tel_Inv_Detail
			de		

Order	Input Field Name	Format	Temporary	Output	Output
			Column	Column Name	Table Name
			Name		
6	FIMA_Task_Code	Varchar	FIMA_Task_C	FIMA_Task_Cod	Tel_Inv_Detail
			ode	е	
7	FIMA_Phase_Code	Varchar	FIMA_Phase_	FIMA_Phase_Co	Tel_Inv_Detail
			Code	de	
8	FIMA_Object_Code	Number	FIMA_Object_	FIMA_Object_Co	Tel_Inv_Detail
			Code	de	
9	Disbursement_Amount	Number	Disbursement	Unit_Price	Tel_Inv_Detail
10		(12,4)	_Amount		
10	Item Description	Varchar	Item_Descr	Item_Descr	Tel_Inv_Detail
		(Up to 240			
		Characters of Text			
		Possible)			
11	User_Name	Varchar	User_Name	User_Name	Tel_Inv_Head
' '	Coor_rtains	(Up to 30	Cool_Hamo	Occi_itailio	er,
		Characters			Tel Inv Contr
		of Text			ol,
		Possible)			Tel_Inv_Detail
12	Modification_Date	Date:Time	Modification_	Modification_Dat	Tel_Inv_Head
		(mm-dd-rrrr	Date	е	er,
		hh:mi:ss			Tel_Inv_Contr
		PM)			ol,
					Tel_Inv_Detail
13	Device_Name	Varchar	Device_Name	Device_Name	Tel_Inv_Head
		(Up to 30			er,
		Characters			Tel_Inv_Contr
		of Text Possible)			ol,
		rossible)			Tel_Inv_Detail

Table 4.14.6 - DOT - FIMA File to Table Load Mapping

4.4.2.3.7 DOT - CAMS File to Table Load Mapping

The DOT - CAMS input file format will use a 'comma' delimited format.

Order	Input Field Name	Format	Temporary	Output	Output
			Column	Column Name	Table Name
			Name		
1	Bill_Date	Date (dd- mon-yyyy)	Bill_Date	Invoice_Date	Tel_Inv_Contr ol
2	Document_Number	Varchar	Document_No	Referemce_No	Tel_Inv_Contr ol
3	Fiscal_Year	Number (yyyy)	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
4	Secondary_Reference_ Number	Varchar	Secondary_R eference_Nu mber	Invoice_No	Tel_Inv_Contr ol
5	Bureau_Code	Varchar	Bureau_Code	Bureau_Code	Tel_Inv_Contr ol
6	CFS_Org_Code_1	Varchar	Org1_Code	Org1_Code	Tel_Inv_Detail

Order	Input Field Name	Format	Temporary	Output	Output
			Column	Column Name	Table Name
			Name		
7	CFS_Org_Code_2	Varchar	Org2_Code	Org2_Code	Tel_Inv_Detail
8	CFS_Org_Code_3	Varchar	Org3_Code	Org3_Code	Tel_Inv_Detail
9	CFS_Org_Code_4	Number	Org4_Code	Org4_Code	Tel_Inv_Detail
10	CFS_Org_Code_5	Number	Org5_Code	Org5_Code	Tel_Inv_Detail
11	CFS_Org_Code_6	Number	Org6_Code	Org6_Code	Tel_Inv_Detail
12	CFS_Org_Code_7	Number	Org7_Code	Org7_Code	Tel_Inv_Detail
13	CFS_Project_Code	Varchar	Project_Code	Project_Code	Tel_Inv_Detail
14	CFS_Task_Code	Varchar	Task_Code	Task_Code	Tel_Inv_Detail
15	CFS_Object_Class_1	Number	Object1_Code	Object1_Code	Tel_Inv_Detail
16	CFS_Object_Class_2	Number	Object2_Code	Object2_Code	Tel_Inv_Detail
17	CFS_Object_Class_3	Number	Object3_Code	Object3_Code	Tel_Inv_Detail
18	CFS_Object_Class_4	Number	Object4_Code	Object4_Code	Tel_Inv_Detail
19	User_Define_ACCS	Number	User_Define_	User_Define_AC	Tel_Inv_Detail
			ACCS	CS	
20	Disbursement_Amount	Number	Disbursement	Unit_Price	Tel_Inv_Detail
		(12,4)	_Amount		
21	Item Description	Varchar	Item_Descr	Item_Descr	Tel_Inv_Detail
		(Up to 240			
		Characters			
		of Text			
00	Mandan Cada	Possible)	Inner Vandan	Manadan Nana	Tal lass Canta
22	Vendor_Code	Varchar	Input_Vendor	Vendor_Name,	Tel_Inv_Contr
		(Up to 16 Characters	_Code	Vendor_No and Vendor_ID	ol
		of Text		Vendoi_iD	
		Possible)			
23	User_Name	Varchar	User_Name	User_Name	Tel_Inv_Head
	5551_1141115	(Up to 30	555: (4.11.5	5551_1141116	er,
		Characters			Tel_Inv_Contr
		of Text			ol,
		Possible)			Tel_Inv_Detail
24	Modification_Date	Date:Time	Modification_	Modification_Dat	Tel_Inv_Head
		(mm-dd-rrrr	Date	е	er,
		hh:mi:ss			Tel_Inv_Contr
		PM)			ol,
					Tel_Inv_Detail
25	Device_Name	Varchar	Device_Name	Device_Name	Tel_Inv_Head
		(Up to 30			er,
		Characters			Tel_Inv_Contr
		of Text			ol,
		Possible)			Tel_Inv_Detail

Table 4.14.7 - DOT - CAMS File to Table Load Mapping

4.4.2.3.8 NLSC - CAMS Table to Table Load Mapping

Input Column Name	Type and Size	Output Column Name	Output Table Name
Bill_Date	Date	Invoice_Date	Tel_Inv_Control
Reference_Number	Varchar2(20)	Reference_No	Tel_Inv_Control
Fiscal_Year	Number(4)	Fiscal_Year	Tel_Inv_Detail

Input Column Name	Type and Size	Output Column	Output Table
·		Name	Name
Invoice_Number	Varchar2(20)	Invoice_No	Tel_Inv_Control
Bureau_Code	Number(2)	Bureau_Code	Tel_Inv_Control
CFS_Org_Code_1	Varchar2(2)	Org1_Code	Tel_Inv_Detail
CFS_Org_Code_2	Varchar2(2)	Org2_Code	Tel_Inv_Detail
CFS_Org_Code_3	Varchar2(4)	Org3_Code	Tel_Inv_Detail
CFS_Org_Code_4	Number(2)	Org4_Code	Tel_Inv_Detail
CFS_Org_Code_5	Number(2)	Org5_Code	Tel_Inv_Detail
CFS_Org_Code_6	Number(2)	Org6_Code	Tel_Inv_Detail
CFS_Org_Code_7	Number(2)	Org7_Code	Tel_Inv_Detail
CFS_Project_Code	Varchar2(7)	Project_Code	Tel_Inv_Detail
CFS_Task_Code	Varchar2(3)	Task_Code	Tel_Inv_Detail
CFS_Object_Class_1	Number(2)	Object1_Code	Tel_Inv_Detail
CFS_Object_Class_2	Number(2)	Object2_Code	Tel_Inv_Detail
CFS_Object_Class_3	Number(2)	Object3_Code	Tel_Inv_Detail
CFS_Object_Class_4	Number(2)	Object4_Code	Tel_Inv_Detail
User_Define_ACCS	Number(6)	User_Define_ACCS	Tel_Inv_Detail
Disb_Amount	Varchar2(13,2)	Unit_Price	Tel_Inv_Detail
Item_Description	Varchar2(240)	Item_Descr	Tel_Inv_Detail
Vendor_Code	Varchar2(16)	Input_Vendor_Code	Tel_Inv_Control
User_Name	Varchar2(30)	User_Name	Tel_Inv_Header,
			Tel_Inv_Control,
			Tel_Inv_Detail
Modification_Date	Date:Time	Modification_Date	Tel_Inv_Header,
			Tel_Inv_Control,
			Tel_Inv_Detail
Device_Name	Varchar2(30)	Device_Name	Tel_Inv_Header,
			Tel_Inv_Control,
			Tel_Inv_Detail
Processed_Flag	Varchar2(1)	N/A	N/A

Table 4.14.8 - NLSC - CAMS Table to Table Load Mapping

The NLSC - CAMS input table will be created and maintained within the CAMS/CFS production environment. Unlike the input data batches that utilize ASCII flat files, the input data captured within this table will not be archived in a separate directory upon the completion of processing. The Processed_Flag field will not be populated during the load phase. At the conclusion of all Telecommunications Interface vendor invoice generation processing the Processed_Flag will be updated with 'Y' to ensure the load process does not attempt to process the same records multiple times.

The load process will work differently for input data batches that utilize the NLSC - CAMS format. When the end-user initiates the invoice generation processing on the TEL201 screen using the NLSC - CAMS format the Telecommunications Interface will access a specific table on CASC's production environment where NLSC data is maintained. It will copy this data to the Telecommunications Interface intermediary input tables where it will be maintained. It is important to note that if the modification date of an input data batch is the same as that of a data batch that has already

been successfully processed by the Telecommunications Interface, the interface will not download that file.

4.4.2.3.9 Excel Spreadsheet - FIMA File to Table Load Mapping

The NWSAPP - FIMA file format is currently in use as the standard flat file structure for the processing of telecommunication charges. Therefore the Excel spreadsheet's structure will closely mimic that of the NWSAPP - FIMA file format. The excel spreadsheet will use a 'comma' delimited format.

Order	Input Field Name	Format	Temporary Column Name	Output Column Name	Output Table Name
1	Bill Date	Date (mm- dd-yy)	Bill_Date	Invoice_Date	Tel_Inv_Control
2	Document Number	XXXXXXXX XXXXXXXX XXXX	Document_No	Reference_No	Tel_Inv_Control
3	Invoice Number	XXXXXXXX XXXXXXXX XXXX	Invoice_No	Invoice_No	Tel_Inv_Control
4	Fiscal Year	9999 (yyyy)	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
5	Organization Code	XXXXXX	Organization_Cod e	FIMA_Org_Code	Tel_Inv_Detail
6	Task Code	XXXXXX	Task_Code	FIMA_Task_Code	Tel_Inv_Detail
7	Phase Code	XX	Phase_Code	FIMA_Phase_Code	Tel_Inv_Detail
8	Object Code	9999	Object_Code	FIMA_Object_Clas s	Tel_Inv_Detail
9	Amount	999999.99 (8,2)	Amount	Unit_Price	Tel_Inv_Detail
10	CFS Vendor No	9999999999	Vendor_No	Vendor_No	Tel_Inv_Control
11	CFS Vendor ID	999999	Vendor_ID	Vendor_ID	Tel_Inv_Control
12	Item Description	240 Character of Text Possible	Item_Descr	Item_Descr	Tel_Inv_Detail
13	User Name	30 Characters of Text Possible	User_Name	User_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
14	Modification Date	Date:Time (mm-dd-rrrr hh:mi:ss PM)	Modification_Date	Modification_Date	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
15	Device Name	30 Characters of Text Possible	Device_Name	Device_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail

Table 4.14.9 - Excel Spreadsheet - FIMA File To Table Load Mapping

4.4.2.3.10 Excel Spreadsheet - CAMS File to Table Load Mapping

Order	Input Field Name	Format	Temporary	Output	Output Table
			Column	Column	Name
			Name	Name	
1	Bill Date	Date (mm- dd-yy)	Bill_Date	Invoice_Date	Tel_Inv_Control
2	Document Number	XXXXXXXX XXXXXXXX XXXX	Document_No	Reference_No	Tel_Inv_Control
3	Invoice Number	XXXXXXXX XXXXXXXX XXXX	Invoice_No	Invoice_No	Tel_Inv_Control
4	Fiscal Year	9999 (yyyy)	Fiscal_Year	Fiscal_Year	Tel_Inv_Detail
5	Bureau_Code	99	Bureau_Code	Bureau_Code	Tel_Inv_Control
6	CFS_Org_Code_1	XX	CFS_Org_Co de_1	Org1_Code	Tel_Inv_Detail
7	CFS_Org_Code_2	XX	CFS_Org_Co de_2	Org2_Code	Tel_Inv_Detail
8	CFS_Org_Code_3	XXXX	CFS_Org_Co de_3	Org3_Code	Tel_Inv_Detail
9	CFS_Org_Code_4	99	CFS_Org_Co de_4	Org4_Code	Tel_Inv_Detail
10	CFS_Org_Code_5	99	CFS_Org_Co de_5	Org5_Code	Tel_Inv_Detail
11	CFS_Org_Code_6	99	CFS_Org_Co de_6	Org6_Code	Tel_Inv_Detail
12	CFS_Org_Code_7	99	CFS_Org_Co de_7	Org7_Code	Tel_Inv_Detail
13	CFS_Project_Code	XXXXXXX	CFS_Project_ Code	Project_Code	Tel_Inv_Detail
14	CFS_Task_Code	XXX	CFS_Task_C ode	Task_Code	Tel_Inv_Detail
15	CFS_Object_Class_1	99	CFS_Object_ Class_1	Object1_Code	Tel_Inv_Detail
16	CFS_Object_Class_2	99	CFS_Object_ Class_2	Object2_Code	Tel_Inv_Detail
17	CFS_Object_Class_3	99	CFS_Object_ Class_3	Object3_Code	Tel_Inv_Detail
18	CFS_Object_Class_4	99	CFS_Object_ Class_4	Object4_Code	Tel_Inv_Detail
19	User_Define_ACCS	999999	User_Define_ ACCS	User_Define_ ACCS	Tel_Inv_Detail
20	Amount	999999.99 (8,2)	Amount	Unit_Price	Tel_Inv_Detail
21	CFS_Vendor_No	9999999999	Vendor_No	Vendor_No	Tel_Inv_Control
22	CFS_Vendor_ID	999999	Vendor_ID	Vendor_ID	Tel_Inv_Control
23	Item_Description	240 Character of Text Possible	Item_Descr	Item_Descr	Tel_Inv_Detail

Order	Input Field Name	Format	Temporary	Output	Output Table
			Column	Column	Name
			Name	Name	
24	User_Name	30 Characters of Text Possible	User_Name	User_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
25	Modification_Date	Date:Time (mm-dd-rrrr hh:mi:ss PM)	Modification_ Date	Modification_ Date	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail
26	Device_Name	30 Characters of Text Possible	Device_Name	Device_Name	Tel_Inv_Header, Tel_Inv_Control, Tel_Inv_Detail

Table 4.14.10 - Excel Spreadsheet - CAMS File To Table Load Mapping

4.4.2.4 Output

This section lists the database tables that will be affected by the actions of the Tel_Input_Load routine. The table below lists the database tables where the Tel_Input_Load routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Inv_Header	Yes	Yes	Yes	Temporary Transaction Table (non- validated and unmatched telecom input temporary table)
Tel_Inv_Control	Yes	Yes	Yes	Temporary Transaction Table (non- validated and unmatched telecom input temporary table)
Tel_Inv_Detail	Yes	Yes	Yes	Temporary Transaction Table (non- validated and unmatched telecom input temporary table)

Table 4.15 - Output Tables Affected by the Tel_Input_Load Routine

4.4.3 Validate Vendor Crosswalk

The Tel_Vendor_Crosswalk routine is designed to crosswalk vendor information between the input data sources and the CAMS/CFS vendor maintenance tables. 'Crosswalking' is defined as mapping one set of values to another set of values so they can relate to each other. Currently, only one of the input data sources (NWSAPP) supplies the Telecommunications Interface with vendor information. The NWSAPP system attaches a Vendor_Code to each record within the input data batch. Each of the NWSAPP Vendor_Codes is associated with a CAMS/CFS vendor. As a result multiple vendor records are maintained on the TEL001 screen for this file format.

We have requested that the ground shipping charges processed by the NLCS include a Vendor_Code on their data input table. This will allow the Telecommunications Interface to differentiate between the multiple anticipated vendors for this file format. The other input data sources do not provide any vendor information. Therefore only one CAMS/CFS vendor is aligned with the file format for each input data batch.

When the end user selects an interface file type to process on the TEL201 screen the Telecommunications Interface will access the applicable maintenance record on Tel_Maint_Control and Tel_Maint_Vendor tables. If only one vendor has been established on the TEL001 screen for the selected maintenance record the interface will populate the vendor information fields (Selected_Vendor_Name, Selected_Vendor_Number and Selected_Vendor_ID) on the TEL201 screen with this vendor maintenance information.

If the global variables associated with the Selected_Vendor_Name, Selected_Vendor_Number and Selected_Vendor_ID fields from the TEL201 screen are populated with vendor data the routine will not attempt to crosswalk the vendor values. The routine will populate the appropriate vendor fields on each invoice record within the non-validated and unmatched telecom input temporary table with the vendor data captured in the global variables.

If more than one vendor has been established on the TEL001 screen for the selected maintenance record the interface will populate the TEL201 field Selected_Vendor_Name field with 'Based on Input File' and populate the Selected_Vendor_Number and Selected_Vendor_ID fields with 'Null' values. The Telecommunications Interface will then call the Tel_Vendor_Crosswalk routine and attempt to crosswalk the vendor information.

Crosswalked values will be applied to the applicable vendor fields for each invoice record recorded in the Tel_Inv_Control table.

At the conclusion of the Tel_Vendor_Crosswalk routine, the Telecommunications Interface will produce a Vendor Crosswalk Status Report and display a pop-up screen asking the initiator of the process if they wish to continue processing. Based upon the results captured in the report, the end user will either continue or stop processing.

4.4.3.1 Input

The following sections list all tables needed prior to the execution of the Tel_Vendor_Crosswalk routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Header	N/A	Temporary Transaction Table	Record values captured in the header table of the non-validated and unmatched telecom input temporary table
Tel_Inv_Control	N/A	Temporary Transaction Table	Record values captured in the control table of the non-validated and unmatched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Record values captured in the detail table of the non-validated and unmatched telecom input temporary table
Tel_Maint_Control	TEL001	Reference	Interface File Types from active and valid header records
Tel_Maint_Vendor	TEL001	Reference	Associated vendor information of selected interface file type and OPAC status
Parameter	N/A	Store Screen Values	N/A

Table 4.16 - Tel_Vendor_Crosswalk Routine Input Tables

4.4.3.2 Processing Logic of Validated and Unmatched Telecom Input Temporary Table

The following tables describe the field descriptions of the validated and unmatched telecom input temporary table. The validate and unmatched telecom input temporary table is identical in its structure to the non-validated and unmatched telecom input temporary table. Crosswalked vendor information will be applied to the individual vendor invoice records on the validated and unmatched telecom input temporary table where applicable.

Only the fields that will be affected by the Tel_Vendor_Crosswalk routine will be documented below.

4.4.3.2.1 Tel_Inv_Control Table Overview

The document table below describes the control table of the validated and unmatched telecom input temporary table Tel_Inv_Control. Only the fields that will be affected by the Tel_Vendor_Crosswalk routine are documented below.

Field Name	Type and Size	Description
Vendor_No	Number(10)	CAMS/CFS vendor identification code.

Field Name	Type and Size	Description
Vendor_ID	Number(6)	CAMS/CFS sequentially generated code used to differentiate vendor address information.

Table 4.17 - Overview Processing Logic for the Validated and Unmatched Telecom Input Temporary Table Control Table (Tel_Inv_Control)

4.4.3.2.2 Tel_Inv_Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_Inv_Control) of the validated and unmatched telecom input temporary table that are affected by the Tel_Vendor_Crosswalk routine.

Column Property	Property Value
Purpose	This field captures the CAMS/CFS vendor number that is; Captured as a global variable on the TEL201 screen or associated with the Input_Vendor_Code as established on the TEL001 maintenance tables.
Field Name	Vendor_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes. If the Tel_Vendor_Crosswalk routine is unsuccessful and the end-user opts to continue processing, the vendor_no field will be populated with a default value. The default value will be the number '9' across the entire length of the field for each invoice record. The Standard Interface error routines will detect the missing data and send the record to an error correction screen.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	See Required

Column Property	Property Value
Purpose	This field captures the CAMS/CFS vendor ID that is; Captured as a global variable on the TEL201 screen or associated with the Input_Vendor_Code as established on the TEL001 maintenance tables.
Field Name	Vendor_ID
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A

Column Property	Property Value
Required	Yes. If the Tel_Vendor_Crosswalk routine is unsuccessful and the end-user opts to continue processing, the vendor_id field will be populated with a default value. The default value will be the number '9' across the entire length of the field for each invoice record. The Standard Interface error routines will detect the missing data and send the record to an error correction screen.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	See Required

Table 4.18 - Detailed Review Processing Logic for the Validated and Unmatched Telecom Input Temporary Table Control Table (Tel_Inv_Control)

4.4.3.2.3 Tel Inv Detail Table Overview

The document table below describes the detail table of the validated and unmatched telecom input temporary table Tel_Inv_Detail. Only the fields that will be affected by the Tel_Vendor_Crosswalk routine are documented below.

Field Name	Type and Size	Description
Payment_Type	Varchar2(6)	Payment Type associated with a particular vendor number and vendor ID.
Payment_Office_Code	Varchar2(6)	Payment Office Code associated with a particular vendor number and vendor ID.
Center_Code	Varchar2(6)	Center Code associated with a particular vendor number and vendor ID.
Payment_Enclosure	Varchar2(1)	Payment Enclosure Flag associated with a particular vendor number and vendor ID.

Table 4.19 - Overview Processing Logic for the Validated and Unmatched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail)

4.4.3.2.4 Tel_Inv_Detail Table Detailed Review

The document table below describes the processing logic for the columns of the detail table (Tel_Inv_Detail) of the validated and unmatched telecom input temporary table that are affected by the Tel_Vendor_Crosswalk routine.

Column Property	Property Value			
Purpose	This field captures the CAMS/CFS Payment_Type that is associated with the crosswalked Vendor Number and Vendor ID.			
Field Name	Payment_Type			
Table Name	Tel_Inv_Detail			
Displayed	N/A			
Format	N/A			
Required	Yes. if the Tel_Vendor_Crosswalk is successful base upon the CFS_Vendor_Payment_Method for the CFS_Vendor_No and CFS_Vendor_ID as recorded on the Tel_Maint_Vendor table. If the Tel_Vendor_Crosswalk is unsuccessful populate with 'EFT'. If the enduser opts to continue processing, the vendor_no and vendor_id field will be populated with default values. The Standard Interface error routines will detect the invalid data and send the record to an error correction screen. By defaulting the Payment_Type we insure that we can populate all required payment information fields with valid data. When the end-user corrects the vendor data in the Standard Interface the payment information fields will be overwritten with the correct data.			
System Generated	No			
Primary Key	No			
Unique	No			
Default Value	N/A			
Processing Logic				
Validation Check	N/A			
Validation Rules	See Required			

Column Property	Property Value
Purpose	This field will capture the payment office code from which the input data batch is transferred to the Standard Interface.
Field Name	Payment_Office_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes. The Payment_Office_Code will be derived from the Payment_Office_Code of the end-user identified by their database user name (DB_User_Name) from the Employee_Control table.
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the treasury finance center code that corresponds to the payment office code and payment type.

Column Property	Property Value
Field Name	Center_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Set Center_Code equal to the Center_Code on the CAMS/CFS Payment_Office_Detail table where the Office_Code on the CAMS/CFS Payment_Office_Control table is equal to the Payment_Office_Code on the Tel_Inv_Detail table and the Payment_Type_Code on the Payment_Office_Detail table is equal to the Payment_Type on Tel_Inv_Detail and the Active_Status on the CAMS/CFS Payment_Office_Control table is 'Y' for the line item.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See System Generated

Column Property	Property Value
Purpose	This field will capture the payment enclosure flag for the line item. This will be populated with a '2' (two) by the Tel_Vendor_Crosswalk routine.
Field Name	Payment_Enclosure
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 4.20 - Detailed Review Processing Logic for the Validated and Unmatched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail)

4.4.3.3 Output

This section lists the database tables that will be affected by the actions of the Tel_Vendor_Crosswalk routine. The table below lists the database tables where the Tel_Vendor_Crosswalk routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Inv_Header	No	Yes	Yes	Temporary Transaction Table (for the validated and unmatched telecom input temporary table)
Tel_Inv_Control	No	Yes	Yes	Temporary Transaction Table (for the validated and unmatched telecom input temporary table)
Tel_Inv_Detail	No	Yes	Yes	Temporary Transaction Table (for the validated and unmatched telecom input temporary table)

Table 4.21 - Output Tables Affected by the Tel_Vendor_Crosswalk Routine

At the conclusion of processing the Tel_Vendor_Crosswalk routine will have updated the Vendor_No and Vendor_ID columns of the Tel_Inv_Control table with vendor information where the crosswalk routine was successful and with default values that are invalid where the crosswalk routine was not successful.

The File Load and Vendor Crosswalking routines comprise the first phase, of two, for the Telecommunications Interface Invoice Generation Processing. At the conclusion of the Phase 1 if the file load is unsuccessful the TEL201 File Process Brief Report will appear on the endusers screen. The on-line report will indicate that the file load was unsuccessful, the total of records from the input file read and the number and percentage of records that failed processing. If one record fails processing this brief report will appear and all processing will be halted. It is important to note that only input data batches that utilize flat files and fail the load process will encounter this routine.

If the load process was successful this brief report will not appear and the Phase 1 processing will continue to the vendor crosswalk routines. At the conclusion of the vendor crosswalk routines the end-user will receive an on-line brief report and a hard report will be sent to their e-mail address or printer depending upon the criteria specified on the TEL201 screen. The report will be reviewed by the end-user to determine if the vendor information has been successfully crosswalked for the invoice records within the input data file.

The TEL201a Vendor Crosswalk Brief Report will indicate the total number of records read from the input file, the number of invoice control and detail records generated as well as the success and failure numbers and percentages of the vendor crosswalk routines. The vendor crosswalk routines will apply to the invoice control records only, as the vendor information is captured at the control level in CAMS/CFS. The TEL201a Vendor Crosswalk Brief Report will also confirm the end-user's intent to continue processing based upon the results captured in the Vendor Crosswalk Status Report.

If end-user may choose to continue processing regardless of the success or failure of the routine. If the vendor crosswalk routine was unsuccessful and the user chooses to continue processing the Tel_Invoice_Control table will be updated with default vendor information that is invalid for the invoice records where the crosswalk routine was unsuccessful. The Standard Interface will detect the default and invalid vendor information and send the invoice record to an error correction screen where the applicable vendor information will be inserted or the invoice record deleted.

If the user chooses to stop processing, the Validated and Unmatched Telecom Temporary table will be deleted. The input record will remain in the input directory or table location as defined on INT001. The end-user will forward the Vendor Crosswalk Status Report to the appropriate individual to request updates to be made the TEL001 maintenance tables for the vendor crosswalk information. After the updates have been completed the end-user will re-initiate processing using the same input data batch.

For input data batches that utilize the NLSC input table format the process will work differently. If the user chooses to stop processing, the Validated and Unmatched Telecom Temporary table will be deleted and in addition all of the records, for the batch number being processed, will be deleted from the input table. It is assumed that any changes to the NLSC input data should be made at the data source. Therefore by deleting the input data from the Telecommunications Interface temporary tables we are requiring all data changes to be made at the source.

It is important to note that in order for all records within a corrected data batch to be processed as one batch the modification date must be the same for all records because the Telecommunications Interface utilizes the modification date of the records to identify a data batch.

4.4.4 Generate Vendor Crosswalk Status Report

After the Tel_Vendor_Crosswalk routine is complete the Telecommunications Interface will call the Tel_Vendor_Crosswalk_Status_Report routine. This routine will generate the Vendor Crosswalk Status Report (TEL201a) and write the report to the directory as specified on the INT001 screen. The Vendor Crosswalk Status Report will capture a summary of the vendor crosswalk processing success and failure, applicable processing percentages and details of the failed records. The purpose of the report is to provide endusers and Telecommunications Interface maintenance personnel information that allows them to make educated decisions about invoice record generation process.

Depending upon the reporting selection entered on the TEL201 screen this report will be sent directly to a printer or e-mailed to the end-users e-mail account. Reports that are e-mailed will be designed to be imported into Microsoft Excel similar to the logic developed for QR101 reports.

4.4.4.1 Input

The following sections list all tables needed prior to the execution of the Tel_Vendor_Crosswalk_Status_Report routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Header	N/A	Reference	Record values captured in the header table of the validated and unmatched telecom input temporary table
Tel_Inv_Control	N/A	Reference	Record values captured in the control table of the validated and unmatched telecom input temporary table
Tel_Inv_Detail	N/A	Reference	Record values captured in the detail table of the validated and unmatched telecom input temporary table
Tel_Maint_Control	TEL001	Reference	Interface File Types from active and valid header records
Tel_Maint_Vendor	TEL001	Reference	Associated vendor information of selected interface file type
Parameter	N/A	Store Screen Values	N/A

Table 4.22 - Tel Vendor Crosswalk Status Report Routine Input Tables

4.4.4.2 Report Format

The following is a screen shot of the TEL201a - Telecommunications Interface Vendor Crosswalk Status Report. The report will capture the processing results of the most recent Tel_Vendor_Crosswalk routine.

Subject: Vendor crosswalk report results Date: Tue, 17 Sep 2002 14:46:25 -0400 (EDT) From: CAMS-MAIL-CENTER@rdc.noaa.gov USER ID: OPS\$NFROBLEG CREATION RUN DATE: 09/17/2002 COMMERCE ADMINISTRATIVE MANAGEMENT SYSTEM REPORT ID: TEL201R NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION PAGE : INSTANCE: GP2 TEL201A - CAMS/CFS TELECOMMUNICATIONS INTERFACE VENDOR CROSSWALK PROCESSING STATUS REPORT Criteria: Interface File Type Processed: Name/Batch Number of File Processed: NWS_FIMA_OCT-FEB.txt MARINE Item Type Processed: Summary of Processing: Crosswalked Failed Crosswalk Successfully Number of Vendor Records: 6 3 67% 33% Percentages: Details of Failures: Vendor Code Reference Number Amount ATT 9N6440100 \$12.92 ATT 9N6440100 \$5.00 ATT 9N6440100 \$17.85 ***** END OF THE REPORT *****

Figure 6.0 - Layout of the TEL201a - Vendor Crosswalk Status Report

4.4.4.3 TEL201a - Vendor Crosswalk Status Report Processing Logic

4.4.4.3.1 TEL201a - Vendor Crosswalk Status Report Overview

The document table below provides an overview of the processing logic associated with the columns on the TEL201a - Vendor Crosswalk Status Report.

Report Label	Field Name	Type and Size
Creation Run Date	Date	Date
Report ID	Report_ID	Varchar2(10)
Instance	Instance	Varchar2(10)
User ID	User_ID	Varchar2(30)
Page	Page	Varchar2(3)
Interface File Type Processed:	Processed_Interface_File_Type	Varchar2(4)
Name/Batch Number of File	Processed_File_Name_Batch	Varchar2(30)
Processed:		
Interface Item Type Processed:	Processed_Interface_Item_Type	Varchar2(6)
(Number of Vendor Records)	No_Records_Read	Number(5)
Read		
(Number of Vendor Records)	No_Records_Success	Number(5)
Crosswalked Successfully		
(Number of Vendor Records)	No_Records_Fail	Number(5)
Failed Crosswalk		
(Percentages) Crosswalked	Percnt_Success	Number(3,1)
Successfully		
(Percentages) Failed Crosswalk	Percnt_Fail	Number(3,1)
Vendor Code	Input_Vendor_Code	Varchar2(16)

Report Label	Field Name	Type and Size
Reference Number	Reference_No	Varchar2(20)
Amount	Amount	Number (13,2)

Table 4.23 - Overview Processing Logic for the TEL201a - Vendor Crosswalk Status Report

4.4.4.3.2 TEL201a - Vendor Crosswalk Status Report Detailed Review

The document table below describes in detail the processing logic associated with the columns shown in the TEL201a - Vendor Crosswalk Status Report.

Field Property	Property Value
Report Label	Creation Run Date:
Purpose	This field captures the execution date of the report. This field is part of the header record of the report.
Field Name	Date
Table Name	N/A
Format	DD-MON-RRRR, Left Align
Calculation Logic	System generated based upon the system date.

Field Property	Property Value
Report Label	Report ID:
Purpose	This field captures the report ID within CAMS/CFS. This field is part of the header record of the report.
Field Name	Report_ID
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Instance:
Purpose	This field captures the instance in which the report was generated. This field is part of the header record of the report.
Field Name	Instance
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	User ID:
Purpose	This field captures the Oracle Database User ID of the end-user that initiated the original execution of the processing that generated the report. This field is part of the header record of the report.
Field Name	User_ID
Table Name	N/A
Format	Right Align

Field Property	Property Value
Calculation Logic	N/A

Field Property	Property Value
Report Label	Page:
Purpose	This field captures the page number of the report. This field is part of the header record of the report.
Field Name	Page
Table Name	N/A
Format	999, Right Align
Calculation Logic	System generated based on the number of pages for the report.

Field Property	Property Value
Report Label	Interface File Type Processed:
Purpose	This field captures the Select_Interface_File_Type as selected on the TEL201 screen.
Field Name	Processed_Interface_File_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Name/Batch Number of File Processed:
Purpose	This field captures the Select_File_To_Process as selected on the TEL201 screen if the Record_Format_ASCII field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type is set to 'Y'. This field captures the Select_Input_Date as selected on the TEL201 screen if the Record_Format_Table field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type is set to 'Y'.
Field Name	Processed_File_Name_Batch
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Interface Item Type Processed:
Purpose	This field captures the Select_Interface_Item_Type as selected on the TEL201 screen.
Field Name	Processed_Interface_Item_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	(Number of Vendor Records) Read
Purpose	This field captures the total number of input records read by the Telecommunications Interface during the Tel_Vendor_Crosswalk routine.
Field Name	No_Records_Read
Table Name	N/A
Format	99999, Right Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	(Number of Vendor Records) Crosswalked Successfully
Purpose	This field captures the total number of <i>invoice control records</i> successfully crosswalked by the Telecommunications Interface during the Tel_Vendor_Crosswalk routine.
Field Name	No_Records_Success
Table Name	N/A
Format	99999, Right Align
Calculation Logic	A record will be considered 'successfully crosswalked' if active and valid CAMS/CFS vendor information, as recorded on the TEL001 screen, is completely applied to an invoice control record.

Field Property	Property Value
Report Label	(Number of Vendor Records) Failed Crosswalk
Purpose	This field captures the total number of <i>invoice control records</i> that were not successfully crosswalked by the Telecommunications Interface during the Tel_Vendor_Crosswalk routine.
Field Name	No_Records_Fail
Table Name	N/A
Format	99999, Right Align
Calculation Logic	A record will be considered 'unsuccessfully crosswalked' if active and valid CAMS/CFS vendor information, as recorded on the TEL001 screen, cannot be applied to an invoice control record.
	A record could fail for any of the following reasons: 1 - The input file vendor code has not been established on the TEL001 maintenance screen.
	2 - There are no crosswalk values established for the input file vendor code supplied on the input record.
	3 - The CAMS/CFS vendor values associated with the input file vendor code are not active.
	4 - The CAMS/CFS vendor values entered on maintenance screen are not active.

Field Property	Property Value
Report Label	(Percentages) Crosswalked Successfully
Purpose	This field captures the percentage of the total number of input records successfully crosswalked by the Telecommunications Interface during the Tel_Vendor_Crosswalk routine.
Field Name	Percnt_Success
Table Name	N/A

Field Property	Property Value
Format	999.9%, Center Align
Calculation Logic	(No_Records_Success/No_Records_Read) * 100

Field Property	Property Value
Report Label	(Percentages) Failed Crosswalk
Purpose	This field captures the percentage of the total number of input records that were not successfully crosswalked by the Telecommunications Interface during the Tel_Vendor_Crosswalk routine.
Field Name	Percnt_Fail
Table Name	N/A
Format	999.9%, Center Align
Calculation Logic	(No_Records_Fail/No_Records_Read) * 100

Field Property	Property Value			
Report Label	Vendor Code			
Purpose	This field captures the vendor code (vendor name) as supplied by the input record if available. Only select systems will supply the vendor code. If no vendor code is supplied by the input record this field will be blank.			
Field Name	Input_Vendor_Code			
Table Name	N/A			
Format	Left Align			
Calculation Logic	N/A			

Field Property	Property Value			
Report Label	Reference Number			
Purpose	This field captures the reference number as supplied by the input record.			
Field Name	Reference_Number			
Table Name	N/A			
Format	Left Align			
Calculation Logic	N/A			

Field Property	Property Value
Report Label	Amount
Purpose	This field captures the dollar amount of the control record as supplied by the input record.
Field Name	Amount
Table Name	N/A
Format	Right Align
Calculation Logic	N/A

Table 4.24 - Detailed Review Processing Logic for the TEL201a - Vendor Crosswalk Status Report

4.4.4.4 Output

No database tables will be affected by the actions of the

Tel_Vendor_Crosswalk_Status_Report routine.

4.4.5 Generate AP Transaction Number Temporary Table

The Tel_AP_Trans_No_Load routine is designed to identify and provide to the Standard Interface an interfaced invoice record criterion that will allow it to be properly applied to an existing shell invoice that was generated through an interfaced estimated accrual record. The Accounts Payable (AP) Transaction Number (Trans_No) from AP_Control and AP_Detail tables will be used as the unique criterion.

The Tel_AP_Trans_No_Load routine will initially execute a query on the CAMS/CFS AP_Control and AP_Detail tables using the following criteria:

Invoice_Type = Derived from the Invoice_Type field on the TEL001 screen

Item_Type = Equal to the global variable captured on the TEL201 screen as Select_Interface_Item_Type

Invoice_Status = 'OPEN'

Document_Source = 'NONE'

GL_Impact_Source = 'PM050'

Approved_Flag = 'N'

The Invoice_Type will be derived from the Invoice_Type field on the TEL001 screen from the maintenance record where the Interface_File_Type. Item_Type and File_Format is equal to the global variable captured on the TEL201 screen as Select_Interface_File_Type, Select_Interface_Item_Type and Select_Interface_File_Format respectively.

It will retrieve the Trans_No and the Reference_No (FIMA Document Number from the input file + Month and Year of the GL_End_Date of the EA) from the CAMS/CFS AP_Control table for all returned records and place the data into the temporary table Tel_AP_Trans_No.

4.4.5.1 Input

The following sections list all tables needed prior to the execution of the Tel_AP_Trans_No_Load routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_AP_Trans_No	N/A	Temporary AP Trans_No Table	Record the AP Transaction Number and Source Reference Number of CAMS/CFS shell invoices
AP_Control	PM003	Reference	Shell invoice records
AP_Detail	PM003	Reference	Shell invoice records
Tel_Inv_Header	N/A	Temporary Transaction Table	Capture invoice record values on the validated and unmatched telecom input temporary table

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Control	N/A	Temporary Transaction Table	Capture invoice record values on the validated and unmatched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Capture invoice record values on the validated and unmatched telecom input temporary table
Tel_Maint_Control	TEL001	Reference	Item Types associated with valid and active Interface File Types
Parameter	N/A	Store Screen Values	N/A

Table 4.25 - Tel_AP_Trans_No_Load Routine Input Tables

4.4.5.2 Processing Logic of the Telecom AP Transaction Number Temporary Table

4.4.5.2.1 Tel AP Trans No Table Overview

The document table below describes the temporary table associated with the Tel_AP_Trans_No_Load routine.

Field Name	Type and Size	Description
AP_Trans_No	Number(8)	CAMS/CFS AP Transaction Number of the shell invoice.
Reference_No	Varchar2(20)	CAMS/CFS Source Reference Number of the shell invoice. Will be equal to the FIMA Document Number as supplied on the input record.

Table 4.26 - Overview Processing Logic for the temporary table associated with the Tel_AP_Trans_No_Load routine (Tel_AP_Trans_No)

4.4.5.2.2 Tel_AP_Trans_No Table Detailed Review

The document table below describes the processing logic for the temporary table associated with the Tel_AP_Trans_No_Load routine.

Column Property	Property Value		
Purpose	This field captures the CAMS/CFS AP Transaction Number of a shell invoice captured on PM003 (AP_Control and AP_Detail).		
Field Name	AP_Trans_No		
Table Name	Tel_AP_Trans_No		
Displayed	N/A		
Format	N/A		
Required	No. This field will only be populated if the Tel_AP_Trans_No_Load routine encounters shell invoices based upon the criteria of the query.		

Column Property	Property Value
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value				
Purpose	This field captures the CAMS/CFS Source Reference Number of a shell invoice captured on PM003 (AP_Control and AP_Detail).				
	This field will also capture the month (mm) and year (rrrr) for which the estimated accrual record was generated. By capturing this additional information in the Reference_No field on the AP_Control table, we ensure that the multiple estimated accrual records for the same invoice record are unique per the Standard Interface requirements.				
Field Name	Reference_No				
Table Name	Tel_AP_Trans_No				
Displayed	N/A				
Format	99999999-MMRRR				
Required	No. This field will only be populated if the Tel_AP_Trans_No_Load routine encounters shell invoices based upon the criteria of the query.				
System Generated	No				
Primary Key	No				
Unique	No				
Default Value	N/A				
Processing Logic					
Validation Check	N/A				
Validation Rules	 See Required All returned rows will be sorted by Reference_No 				

Table 4.27 - Detailed Review of the Processing Logic for the temporary table associated with the Tel_AP_Trans_No_Load routine (Tel_AP_Trans_No)

4.4.5.3 Output

This section lists the database tables that will be affected by the actions of the Tel_AP_Trans_No_Load routine. The table below lists the database tables where the Tel_AP_Trans_No_Load routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_AP_Trans_No	Yes	Yes	No	Temporary AP Trans No Matching Table

Table 4.28 - Output Tables Affected by the Tel_AP_Trans_No_Load Routine

4.4.6 Match Input File Records and AP Transaction Numbers

At the conclusion of the Tel_AP_Trans_No_Load routine the Tel_AP_Match routine will attempt to associate the shell invoice's AP Transaction Numbers captured in the Tel_AP_Trans_No temporary table with the invoice records captured in the Tel_Inv_Control table. It will read the Reference_No column on the Tel_Inv_Control table for each invoice record and search the Tel_AP_Trans_No temporary table for an identical Reference_No, excluding the month and year of the estimated accrual. If a match is detected the Tel_AP_Match routine will apply the AP Transaction Number from the Tel_AP_Trans_No temporary table to the AP_Trans_No column on the Tel_Inv_Control table for the processed invoice record.

If no records within the Tel_AP_Trans_No temporary table contain an identical Reference_No the AP Transaction Number will not be applied to the invoice record and therefore will not be matched to a shell invoice.

If there are multiple shell invoices with the same Reference_No, the Tel_AP_Match routine will select the first AP Transaction Number in the Tel_AP_Trans_No temporary table.

This process will be executed for every invoice record in the Tel_Inv_Control table. At the conclusion of the Tel_AP_Match routine the Tel_AP_Trans_No temporary table will be dropped.

4.4.6.1 Input

The following sections list all tables needed prior to the execution of the Tel_AP_Match routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_AP_Trans_No	N/A	Temporary AP Trans_No Table	Record the AP Transaction Number and Source Reference Number of CAMS/CFS shell invoices
Tel_Inv_Header	N/A	Temporary Transaction Table	Capture invoice record values on the validated and unmatched telecom input temporary table
Tel_Inv_Control	N/A	Temporary Transaction Table	Capture invoice record values on the validated and unmatched telecom input temporary table

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Detail	N/A	Temporary Transaction Table	Capture invoice record values on the validated and unmatched telecom input temporary table
Parameter	N/A	Store Screen Values	N/A

Table 4.29 - Tel_AP_Match Routine Input Tables

4.4.6.2 Processing Logic of the Validated and Matched Telecom Input Temporary Table

The following document tables describe the column descriptions of the validated and matched telecom input temporary table. The validated and matched telecom input temporary table is identical in its structure to the validated and unmatched telecom input temporary table. The only difference is, where applicable, an AP Transaction Number has been applied to each of the invoice records within the input data batch.

Only the fields that may be affected by the Tel_AP_Match routine will be documented below.

4.4.6.2.1 Tel Inv Control Table Overview

The document table below describes the control table of the validated and matched telecom input temporary table Tel_Inv_Control. Only the fields that may be affected by the Tel_AP_Match routine are documented below.

Field Name	Type and Size	Description
AP_Trans_No	Number(8)	CAMS/CFS vendor identification code.

Table 4.30 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Control Table (Tel_Inv_Control)

4.4.6.2.2 Tel_Inv_Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_Inv_Control) of the validated and matched telecom input temporary table that are affected by the Tel_AP_Match routine.

Column Property	Property Value
Purpose	This field will capture, if applicable, the CAMS/CFS AP Transaction Number from the AP_Control table associated with the PM003 screen. This field, if populated, will be used as the primary matching criteria between a shell and actual invoice.
Field Name	AP_Trans_No

Column Property	Property Value
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Table 4.31 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Control Table (Tel_Inv_Control)

4.4.6.3 Output

This section lists the database tables that will be affected by the actions of the Tel_AP_Match routine. The table below lists the database tables where the Tel_AP_Match routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_AP_Trans_No	No	No	Yes	Temporary AP Trans No Matching Table
Tel_Inv_Control	No	Yes	No Temporary Transaction Table (for validated and matched telecom in temporary table)	

Table 4.32 - Output Tables Affected by the Tel_AP_Match Routine

4.4.7 TEL201A - 'G' Schedule Selection Pop-Up Screen

4.4.7.1 Form Layout

The TEL201A screen will be developed as a Character screen using Oracle Forms Version 3.0. The TEL201A screen will provide a mechanism to enter unique search criteria that will allow the end-user to identify the appropriate 'G' Schedule Number to be applied to each invoice record for On-Line Payment and Collection (OPAC) charges within the table. The returned schedule number listing will be derived from the unapproved control records on PM041 (manual_control).

The TEL201A screen will only be used as part of the invoice generation processing if the OPAC_Flag on the Tel_Maint_Control table associated with the TEL001 screen is set to 'Y' where the Interface_File_Type on the Tel_Maint_Control table associated with the TEL001 screen is equal to the

global variable captured on the TEL201 screen as the Select_Interface_File_Type, Select_Interface_File_Format and Select_Interface_Item_Type.

4.4.7.1.1 TEL201A - 'G' Schedule Selection Pop-Up Screen Layout

,				
	TEL201a TELECOM INTE	RFACE 'G' SCHED	ULE SELECTION	
	Enter Parameters for	· '6' Schedule S	election Criteria	
	'6' Schedule Number	1	Bureau Code:	
	Amount	1		
	Vendor Number ∕ IO	:15176 2		
	Vendor Name	:GENERAL SERUI	CES ADMIN.	
	Payment Document Dat	te:		
	. ×0			∠I ! -+> ∠ΠI>
Count	:: *0			<list><replace></replace></list>

Figure 7.0 - TEL201A - 'G' Schedule Selection Pop-Up Screen Layout

4.4.7.2 Operating Rules

The following sections describe the operating rules applicable to the TEL201A screen. Operating Rules differ from business rules in that they are directly associated with a particular operating as opposed to business rules that are associated more generally with the whole application.

4.4.7.2.1 Create a Record (Select a 'G' Schedule Number)

Users cannot apply a 'G' Schedule Number' to the invoice records without selecting a value on the "G' Schedule Number field.

4.4.7.2.2 Modify a Record

Users are not allowed to modify a record on the screen.

4.4.7.2.3 Save a Record

Users are not allowed to save a record on the screen.

4.4.7.2.4 Delete a Record

Users are not allowed to delete a record on the screen.

4.4.7.2.5 Queries

- Users can query on the "G' Schedule Number field.
- Users can query on the 'Amount' field.
- Users cannot query on the 'Vendor' field.
- Users cannot query on the "Payment Document Date" field.

4.4.7.3 Business Rules

The following sections describe the business rules applicable to the TEL201A screen.

- Users will have access to the TEL201A screen during the invoice generation process if the maintenance record for the selected interface file type has the OPAC_Flag equal to 'Y'.
- Users will NOT have access to the TEL201A screen during the invoice generation process if the maintenance record for the selected interface file type has the OPAC_Flag equal to 'N'.
- The Vendor Number and ID displayed on the TEL201A screen must equal the vendor information entered on the Manual Vendor Payment Transaction Screen (PM041).

4.4.7.4 Input

The following sections list all tables needed prior to selection of the 'G' Schedule Number process from the TEL201A screen. The table below lists the database tables where the screen is obtaining the information.

Table Name	Screen	Usage	Record Requirement
Manual_Control	PM041	Combo Box	'G' Schedule Number from the Schedule_No field on the Manual_Control table
Manual_Control	PM041	Combo Box	Amount from the Amount field on the Manual_Control table
Tel_Maint_Vendor	TEL001	Text Box	Associated vendor information of selected interface file type
Manual_Control	PM041	Text Box	Payment Document Date from the Payment_Document_Date field on the Manual_Control table

Table Name	Screen	Usage	Record Requirement
Parameter	N/A	Store Screen Values	N/A

Table 4.33 - TEL201A (Telecommunications Interface 'G' Schedule Selection Pop-Up) Input

4.4.7.5 Processing Logic for the TEL201A Pop-Up

4.4.7.5.1 TEL201A Pop-Up Processing Logic Overview

The following document table lists all screen labels and applicable field name (non-base table) within the TEL201A pop-up. All values will be captured in the parameter table.

Screen Label	Field Name	Type and Size
'G' Schedule Number	Schedule_No	Varchar2(15)
Amount	Amount	Number (13,2)
Vendor	Schedule_Vendor_Number	Number(10)
N/A	Schedule_Vendor_ID	Number(6)
N/A	Schedule_Vendor_Name	Varchar2(30)
Payment Document Date	Schedule_Date	Date

Table 4.34 - Overview of the Processing Logic for the TEL201A Pop-Up

4.4.7.5.2 TEL201A Pop-Up Processing Logic Detail Review

The following sections describe the field descriptions and the processing logic for each field associated with the TEL201A pop-up.

Field Property	Property Value
Screen Label	'G' Schedule Number
Purpose	This field captures all Schedule Numbers on PM041 where the control record has not been approved.
Field Name	Schedule_No
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for Schedule_No with an Approved_Flag = 'N' from the Manual_Control table on PM041.
Processing Logic	
Validation Check	See LOV

Field Property	Property Value
Validation Rules	See LOV and Required
Tab Position	N/A

Field Property	Property Value
Screen Label	Amount
Purpose	This field captures all Amounts (in conjunction with the Schedule_No) on PM041 where the control record has not been approved.
Field Name	Amount
Table Name	N/A
Displayed	Yes. Only the amount associated with the currently highlighted record in the Schedule_No field on TEL201A will be displayed.
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for Amount with an Approved_Flag = 'N' from the Manual_Control table on PM041.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV, Displayed and Required
Tab Position	N/A

Field Property	Property Value		
Screen Label	Vendor		
Purpose	This non-enterable field captures the CFS Vendor Number based upon the selected interface file type setup on TEL001.		
Field Name	Schedule_Vendor_Number		
Table Name	N/A		
Displayed	Yes		
Format	N/A		
Required	File must be populated prior to execution of the process.		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	N/A		
Screen Display Format			
Text Box	Return CFS_Vendor_Number from the Tel_Maint_Vendor table of screen TEL001 where the Interface_File_Type on the Tel_Maint_Control table associated with the TEL001 screen is equal to the global variable captured on the TEL201 screen as the Select_Interface_File_Type.		
Processing Logic			
Validation Check	See Text Box		

Field Property	Property Value		
Validation Rules	 See Text Box and Required. Schedule_Vendor_Number must be equal to the Vendor_No on the Manual_Control table. 		
Tab Position	N/A		

Field Property	Property Value		
Screen Label	N/A		
Purpose	This non-enterable field captures the CFS Vendor ID based upon the selected interface file type setup on TEL001.		
Field Name	Schedule_Vendor_ID		
Table Name	N/A		
Displayed	Yes		
Format	N/A		
Required	Field must be populated prior to execution of the process.		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	N/A		
Screen Display Format			
Text Box	Return CFS_Vendor_ID from the Tel_Maint_Vendor table of screen TEL001 where the Interface_File_Type on the Tel_Maint_Control table associated with the TEL001 screen is equal to the global variable captured on the TEL201 screen as the Select_Interface_File_Type.		
Processing Logic			
Validation Check	See Text Box		
Validation Rules	 See Text Box and Required. Schedule_Vendor_ID must be equal to the Vendor_ID on the Manual_Control table. 		
Tab Position	N/A		

Field Property	Property Value	
Screen Label	N/A	
Purpose	This non-enterable field captures the CFS Vendor Name based upon the selected interface file type setup on TEL001.	
Field Name	Schedule_Vendor_Name	
Table Name	N/A	
Displayed	Yes	
Format	N/A	
Required	Field must be populated prior to execution of the process.	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Screen Display Format		

Field Property	Property Value	
Text Box	Return CFS_Vendor_Name from the Tel_Maint_Vendor table of screen TEL001 where the Interface_File_Type on the Tel_Maint_Control table associated with the TEL001 screen is equal to the global variable captured on the TEL201 screen as the Select_Interface_File_Type.	
Processing Logic		
Validation Check	See Text Box	
Validation Rules	See Text Box and Required	
Tab Position	N/A	

Field Property	Property Value		
Screen Label	Payment Document Date		
Purpose	This non-enterable field captures all Payment Document Dates (in conjunction with the Schedule_No) on PM041 where the control record has not been approved.		
Field Name	Schedule_Date		
Table Name	N/A		
Displayed	Yes. Only the date associated with the currently highlighted record in the Schedule_No field on TEL201A will be displayed.		
Format	N/A		
Required	Yes		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	N/A		
Screen Display Format			
Text Box	Return all values for Payment_Document_Date with an Approved_Flag = 'N' from the Manual_Control table on PM041.		
Processing Logic			
Validation Check	See Text Box		
Validation Rules	See Text Box, Displayed and Required		
Tab Position	N/A		

Table 4.35 - Detailed Review of the Processing Logic for the TEL201A Pop-Up

4.4.7.6 Security

The existing CAMS/CFS menu security and the CAMS/CFS database roles will be used for implementing the security on the new screens and the objects developed, respectively.

4.4.7.7 Error Handling Messages

The following table lists the main error and warning messages applicable to the TEL201A screen.

Message No.	Туре	Text
1	Error	Vendor Number and ID established on the Telecommunications Maintenance Screen did not match the vendor information entered on the Manual Vendor Payment Transaction Screen (PM041).

Table 4.36 - Main Error and Warning Messages for the TEL201A Screen

4.4.7.8 Output

All data entered or selected on the TEL201A screen will be used as global variables selecting and applying 'G' Schedule Number routines. At the conclusion of processing the global variables will be captured in the Parameter table.

4.4.7.9 Reports

No reports will be generated as a result of the TEL201A processing.

4.4.7.10 Requirements Met in the Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page number and description of the requirement.

Requirement Number	Page	Description
CP - 6	14	For all disbursements, the Telecommunications Interface will post the disbursements in CAMS/CFS on PM003.
CP - 7	14	The Telecommunications Interface will generate disbursements for non-OPAC payments.
CP - 9	15	For all OPAC disbursements, the Telecommunications Interface will allow the user to specify the 'G' schedule number.
CP - 10	15	For all non-OPAC disbursements, the Telecommunications Interface will identify the vendor based on the information in the input file.
CP - 12	15	The Telecommunications Interface will validate that the vendor is active in the CFS tables.

Table 4.37 - Requirements Met in the Previous Section

4.4.8 Assign Schedule Number Values

The Tel_Assign_Schedule_No_Values routine is designed to assign the CAMS/CFS default values and the TEL201A selected values as required for the accomplishment of an OPAC record on the CAMS/CFS AP_Detail table associated with PM003.

When executed the Tel_Assign_Schedule_No_Values routine will update specific data fields for all invoice records within the validated and matched telecom input temporary table.

4.4.8.1 Input

The following sections list all tables needed prior to the execution of the Tel_Assign_Schedule_No_Values routine. The table below lists the database tables that will be accessed by the load routine.

Table Name	Screen	Usage	Record Requirement
Manual Control	PM041	Reference	Schedule Number record information
Tel_Inv_Header	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Control	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Parameter	N/A	Store Screen Values	N/A

Table 4.38 - Tel_Assign_Schedule_No_Values Routine Input Tables

4.4.8.2 Processing Logic of the Tel_Assign_Schdedule_No_Values Routine

The following tables describe the field descriptions of the validated and matched telecom input temporary table.

Only the fields that may be affected by the Tel_Assign_Schedule_No_Values routine will be documented below.

4.4.8.2.1 Tel Inv Detail Table Overview

The document table below describes the detail table of the validated and matched telecom input temporary table Tel_Inv_Detail. Only the fields that may be affected by the Tel_Assign_Schedule_No_Values routine are documented below.

Field Name	Type and Size	Description
Schedule_Type	Varchar2(6)	Type of the SP1166 schedule.
Schedule_No	Varchar2(15)	The Schedule Number of the
		Item/MDL.

Table 4.39 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail) During the Tel_Assign_Schedule_No_Values Routine

4.4.8.2.2 Tel_Inv_Detail Table Detailed Review

The document table below describes the processing logic for the columns of the detail table (Tel_Inv_Detail) of the validated and matched telecom input temporary table that are affected by the Tel_Assign_Schedule_No_Values routine.

Column Property	Property Value		
Purpose	This field will capture payment schedule type.		
Field Name	Schedule_Type		
Table Name	Tel_Inv_Control		
Displayed	N/A		
Format	N/A		
Required	Yes at the conclusion of the Tel_Assign_Schedule_No_Values routine.		
System Generated	Yes. Will be set to 'MISC' at the conclusion of the Tel_Assign_Schedule_No_Values routine.		
Primary Key	No		
Unique	No		
Default Value	N/A		
Processing Logic			
Validation Check	See Required and System Generated		
Validation Rules	See Required and System Generated		

Column Property	Property Value
Purpose	This field will capture payment schedule number as recorded in the Schedule_No field as the global variable from the TEL201A screen.
Field Name	Schedule_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes at the conclusion of the Tel_Assign_Schedule_No_Values routine.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 4.40 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail) During the Tel_Assign_Schedule_No_Values Routine

4.4.8.3 Output

This section lists the database tables that will be affected by the actions of the Tel_Assign_Schedule_No_Values routine. The table below lists the database tables where the Tel_Assign_Schedule_No_Values routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Inv_Detail	No	Yes	No	Temporary Transaction Table (for the validated and matched telecom input temporary table). Updated with schedule number specific fields.

Table 4.41 - Output Tables Affected by the Tel_Assign_Schedule_No_Values Routine

4.4.9 FIMA-CAMS ACCS Conversion

The Tel_FIMA_ACCS_Conversion routine is designed to convert the FIMA accounting codes included on the invoice records to the CAMS/CFS accounting codes.

The Telecommunications Interface utilizes a generic input temporary table structure (Tel_Inv_Header, Tel_Inv_Control and Tel_Inv_Detail) that will accept either the FIMA accounting code structure or the CAMS/CFS accounting code structure.

The Tel_FIMA_ACCS_Conversion routine will initially determine if the columns associated with the CAMS/CFS accounting codes are populated for each invoice record. If these columns are populated the routine will not attempt to convert the values. The Tel_FIMA_ACCS_Conversion routine will stop and the invoice generation processing will move to the next routine.

If the columns associated with the CAMS/CFS accounting codes are not populated the Tel_FIMA_ACCS_Conversion routine will access the FIMA accounting code columns to determine if they are populated. If the FIMA accounting code columns are also not populated the Tel_FIMA_ACCS_Conversion routine will process the invoice records with

'0's in all CAMS/CFS accounting codes. The Standard Interface error routines will detect the missing data and send the record to an error

correction screen.

If the FIMA accounting code columns are populated the Tel_FIMA_ACCS_Conversion routine will be called to convert the accounting codes. These routines have already been created for other NOAA CAMS interfacing modules. These procedures will have to be copied from another interfacing module and modified to process the Telecommunications Interface invoice records. It is important to note that the User_Define_ACCS column will not have to be converted by the Tel_FIMA_ACCS_Conversion routine. The values in this column will be populated with '0' by the Tel_FIMA_ACCS_Conversion routine.

If the FIMA/CAMS ACCS Conversion procedures are unable to convert the FIMA accounting codes, the Tel_FIMA_ACCS_Conversion routine will process the invoice record with no ACCS codes. The Standard Interface error routines will detect the missing data and send the record to an error correction screen.

4.4.9.1 Input

The following sections list all tables needed prior to the execution of the Tel_FIMA_ACCS_Conversion routine. The table below lists the database tables that will be accessed by the Tel_FIMA_ACCS_Conversion routine.

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Header	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Control	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Parameter	N/A	Store Screen Values	N/A

Table 4.42 - Tel_FIMA_ACCS_Conversion Routine Input Tables

4.4.9.2 Processing Logic of the Tel_FIMA_ACCS_Conversion Routine

The following tables describe the field descriptions of the validated and matched telecom input temporary table. The Tel_FIMA_ACCS_Conversion routine will convert FIMA ACCS accounting codes into CAMS/CFS accounting codes and assign those values to the existing temporary table when necessary.

Only the fields that may be affected by the Tel FIMA ACCS Conversion

routine will be documented below.

4.4.9.2.1 Tel Inv Control Table Overview

The document table below describes the control table of the validated and matched telecom input temporary table Tel_Inv_Control. Only the fields that may be affected by the Tel_FIMA_ACCS_Conversion routine are documented below.

Field Name	Type and Size	Description
Bureau_Code	Number(2)	CAMS/CFS bureau code.

Table 4.43 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Control Table (Tel_Inv_Control) During the Tel_FIMA_ACCS_Conversion Routine

4.4.9.2.2 Tel Inv Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_Inv_Control) of the validated and matched telecom input temporary table that are affected by the Tel_FIMA_ACCS_Conversion routine.

Column Property	Property Value
Purpose	This field will capture the Bureau Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Bureau_Code
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be '00'.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 4.44 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Control Table (Tel_Inv_Control) During the Tel_FIMA_ACCS_Conversion Routine

4.4.9.2.3 Tel Inv Detail Table Overview

The document table below describes the detail table of the validated and matched telecom input temporary table Tel_Inv_Detail. Only the fields that may be affected by the Tel_FIMA_ACCS_Conversion routine are documented below.

Field Name	Type and Size	Description
Project_Code	Varchar2(7)	Project Code portion of ACCS.
Task_Code	Varchar2(3)	Task Code portion of ACCS.
Org1_Code	Varchar2(2)	Org1 portion of ACCS.
Org2_Code	Varchar2(2)	Org2 portion of ACCS.
Org3_Code	Varchar2(4)	Org3 portion of ACCS.
Org4_Code	Number(2)	Org4 portion of ACCS.
Org5_Code	Number(2)	Org5 portion of ACCS.
Org6_Code	Number(2)	Org6 portion of ACCS.
Org7_Code	Number(2)	Org7 portion of ACCS.
Object1_Code	Number(2)	Object 1 portion of ACCS.
Object2_Code	Number(2)	Object 2 portion of ACCS.
Object3_Code	Number(2)	Object 3 portion of ACCS.
Object4_Code	Number(2)	Object 4 portion of ACCS.
User_Define_ACCS	Number(6)	User Defined ACCS.
FIMA_Org_Code	Varchar2(6)	FIMA Organizational Code.
FIMA_Task_Code	Varchar2(6)	FIMA Task Code.
FIMA_Phase_Code	Varchar2(2)	FIMA Phase Code.
FIMA_Obj_Class	Varchar2(4)	FIMA Object Class.

Table 4.45 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail) During the Tel_FIMA_ACCS_Conversion Routine

4.4.9.2.4 Tel_Inv_Detail Table Detailed Review

The document table below describes the processing logic for the columns of the detail table (Tel_Inv_Detail) of the validated and matched telecom input temporary table that are affected by the Tel FIMA ACCS Conversion routine.

Column Property	Property Value
Purpose	This field will capture the Project Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Task Code.
Field Name	Project_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No

Column Property	Property Value
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Task Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Phase Code.
Field Name	Task_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 1 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org1_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 2 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org2_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 3 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org3_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 4 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org4_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No

Column Property	Property Value
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 5 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org5_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 6 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org6_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 7 Organization Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Organization Code.
Field Name	Org7_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 1 Object Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Object Code.
Field Name	Object1_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 2 Object Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Object Code.
Field Name	Object2_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No

Column Property	Property Value
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 3 Object Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Object Code. This field should be '00' as NOAA does not use the third object code level.
Field Name	Object3_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the Level 4 Object Code associated with the converted CAMS/CFS accounting code. This field will be converted based upon the FIMA Object Code. This field should be '00' as NOAA does not use the fourth object code level.
Field Name	Object4_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes if the FIMA/CAMS ACCS Conversion procedures are successful, otherwise the field will be blank.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	The field will capture the Fiscal Year if supplied on the input data batch and will be assigned during the Tel_Input_Load routine. If not supplied on the input data batch this field will be calculated based upon the Invoice_Date on the Tel_Inv_Control table for the applicable record during the Tel_FIMA_ACCS_Conversion routine.
Field Name	Fiscal_Year
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value	
Purpose	This field captured the FIMA Organizational Code if available from the input record. After the Tel_FIMA_ACCS_Conversion routine this field will be blank.	
Field Name	FIMA_Org_Code	
Table Name	Tel_Inv_Detail	
Displayed	N/A	
Format	N/A	
Required	No	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	N/A	
Validation Rules	This field should not be populated after the conclusion of the Tel_FIMA_ACCS_Conversion routine.	

Column Property	Property Value
Purpose	This field captured the FIMA Task Code if available from the input record. After the Tel_FIMA_ACCS_Conversion routine this field will be blank.
Field Name	FIMA_Task_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No

Column Property	Property Value
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	This field should not be populated after the conclusion of the Tel_FIMA_ACCS_Conversion routine.

Column Property	Property Value
Purpose	This field captured the FIMA Phase Code if available from the input record. After the Tel_FIMA_ACCS_Conversion routine this field will be blank.
Field Name	FIMA_Phase_Code
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	This field should not be populated after the conclusion of the Tel_FIMA_ACCS_Conversion routine.

Column Property	Property Value
Purpose	This field captured the FIMA_OBJ_CLASS if available from the input record. After the Tel_FIMA_ACCS_Conversion routine this field will be blank.
Field Name	FIMA_Obj_Class
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	This field should not be populated after the conclusion of the Tel_FIMA_ACCS_Conversion routine.

Table 4.46 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail) During the Tel_FIMA_ACCS_Conversion

Routine

4.4.9.3 Output

This section lists the database tables that will be affected by the actions of the Tel_FIMA_ACCS_Conversion routine. The table below lists the database tables where the Tel_FIMA_ACCS_Conversion routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Inv_Control	No	Yes	Yes	Temporary Transaction Table (for the validated and matched telecom input temporary table). Updated with CAMS/CFS account code data.
Tel_Inv_Detail	No	Yes	Yes	Temporary Transaction Table (for the validated and matched telecom input temporary table). Updated with CAMS/CFS account code data.

Table 4.47 - Output Tables Affected by the Tel_FIMA_ACCS_Conversion Routine

4.4.10 Assign Default Invoice Values

The Tel_Assign_Default_Invoice_Values routine is designed to accomplish two objectives:

- 1. Populate default data values that will allow an approved telecommunication invoice record to be successfully recorded in the AP_Detail and AP_Control tables associated with the PM003 screen.
- Populate Telecommunications Interface specific data values that will ensure that all telecommunication invoice records are easily distinguishable within CAMS/CFS.

4.4.10.1 Input

The following sections list all tables needed prior to the execution of the Tel_Assign_Default_Invoice_Values routine. The table below lists the database tables that will be accessed by the Tel_Assign_Default_Invoice_Values routine.

Table Name	Screen	Usage	Record Requirement
Tel_Maint_Control	TEL001	Base Table	Base table record of the maintenance control table
Tel_Maint_Vendor	TEL001	Base Table	Base table record of the maintenance detail table
Tel_Inv_Header	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Control	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Payment_Office_Control	PM079	Payment Office Code Maintenance Table	Active and valid Center Codes, Payment Type and Payment Office Codes
Payment_Office_Detail	PM079	Payment Office Code Maintenance Table	Active and valid Center Codes, Payment Type and Payment Office Codes
Parameter	N/A	Store Screen Values	N/A

Table 4.48 - Tel_Assign_Default_Invoice_Values Routine Input Tables

4.4.10.2 Processing Logic of the Tel_Assign_Default_Invoice_Values Routine

4.4.10.2.1 Tel_Inv_Header Table Overview

The document table below describes the header table of the validated and matched telecom input temporary table Tel_Inv_Header.

Only the fields that may be affected by the Tel_Assign_Default_Invoice_Values routine are documented below.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the Vendor Invoice Transaction data batch. Part of the Primary Key of the table.
Interfacing_System	Varchar2(20)	The interfacing system from which the input data batch is transferred to the Standard Interface.
Trans_Count	Number(6)	Number of transactions transferred in the data batch.
Batch_Total	Number(13,2)	Total amount of all vendor invoice transactions being transmitted. Should be the total of all Amount fields on the control record types.
Office_Code	Varchar2(6)	Payment Office Code for which the data batch is transferred.
User_Name	Varchar2(30)	User name of the individual who last modified the invoice record in a financial system.

Field Name	Type and Size	Description
Modification_Date	Date	Date the invoice record was last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 4.49 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Header Table (Tel_Inv_Header) During the Tel_Assign_Default_Invoice_Values Routine

4.4.10.2.2 Tel_Inv_Header Table Detailed Review

The document table below describes the processing logic for the columns of the header table (Tel_Inv_Header) of the validated and matched telecom input temporary table that are affected by the Tel_Assign_Default_Invoice_Values routine.

Column Property	Property Value
Purpose	Primary Key of the table. This field will capture a sequentially generated number that will be applied to all records within the data batch as the records are transferred to the MSI tables. Assigned by the Tel_Assign_Default_Invoice_Values routine based upon the MSI_M00_Header_Batch_No_Seq.
Field Name	Batch_No
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Yes
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	This field will capture the interfacing system from which the input data batch is transferred to the Standard Interface. This will be populated with the Interface File Type as established on the TEL001 screen by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Interfacing_System
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No

Column Property	Property Value
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will calculate the total number of invoice records processed by the Telecommunications Interface. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Trans_Count
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. This field will be calculated based on the total number of invoice records captured in the Tel_Inv_Control table of the validated and matched telecom temporary table.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will calculate the total dollar amount of the invoice records processed by the Telecommunications Interface. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Batch_Total
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. This field will be calculated based on the summation of all values captured in the Unit_Price field on the Tel_Inv_Detail table.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the payment office code from which the input data batch is transferred to the Standard Interface. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Office_Code
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes. The Office_Code will be derived from the Distinct Payment_Office_Code from the Tel_Inv_Detail table.
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the user name of the last individual to run the Telecommunications Interface. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	User_Name
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field will capture the date the Telecommunications Interface was run. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Modification_Date
Table Name	Tel_Inv_Header
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC (SYSDATE).
Primary Key	No
Unique	No

Column Property	Property Value
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the terminal code through which the input data batch was last modified. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Device_Name
Table Name	Tel_Inv_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 4.50 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Header Table (Tel_Inv_Header) During the Tel_Assign_Default_Invoice_Values Routine

4.4.10.2.3 Tel Inv Control Table Overview

The document table below describes the control table of the validated and matched telecom input temporary table Tel_Inv_Control. Only the fields that may be affected by the Tel_Assign_Default_Invoice_Values routine are documented below.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the Vendor Invoice Transaction data batch. Part of the Primary Key of the table.
Invoice_Type	Varchar2(6)	CAMS/CFS invoice type.
Invoice_No	Varchar2(20)	The associated invoice number for the vendor invoice.
Sub_Invoice_No	Number(4)	Used to reference a single invoice for multiple purchase orders.
Received_Date	Date	The date the proper invoice was received.
Document_Source	Varchar2(6)	The source document type.

Field Name	Type and Size	Description
Po_Type	Varchar2(6)	The type of document
. 5,,,,,	1 3.1 3.1 3.1 2(3)	associated with the
		Document_Source.
Po_No	Number(8)	Match document PO Number
	, ,	associated with the vendor
		invoice.
Release_No	Number(3)	PO release number.
Approp_Symbol	Varchar2(21)	CAMS/CFS appropriation
		symbol for making payment to
		another Federal type vendor via
		an SF1080/1081.
Agency_Location_Code	Varchar2(10)	CAMS/CFS agency location
Factor Flori) / · I · O / A)	code.
Fastpay_Flag	Varchar2(1)	Flag indicating whether the
		invoice is subject to the Fast
Prompt_Pay_Flag	Varchar2(1)	Pay. Flag indicating whether the
Frompt_Fay_Flag	vaichaiz(1)	invoice is subject to the Prompt
		Pay Act.
Net_Days1	Number(2)	Net payment days for the first
110(_Bayo1	1141111501(2)	set of payment terms.
Discount_Flag1	Varchar2(1)	Indicates whether the discount
ag .	- a. a. a. a. a.	is a percent (P) or amount (A).
Discount_Amount1	Number(8,3)	The percent or amount of the
_		discount (based on the amount
		in the Discount_Flag1 field).
Discount_Days1	Number(2)	Discount days for the first set of
		payment terms.
Net_Days2	Number(2)	Net payment days for the
		second set of payment terms.
Discount_Flag2	Varchar2(1)	Indicates whether the discount
D:	N (0.0)	is a percent (P) or amount (A).
Discount_Amount2	Number(8,3)	The percent or amount of the
		discount (based on the amount
Discount Days?	Number(2)	in the Discount_Flag2 field).
Discount_Days2	Number(2)	Discount days for the second set of payment terms.
Invoice Amount	Number(13,2)	The total amount on the invoice
invoice_/timedit	144111561(13,2)	from the vendor.
Net_Invoice_Amount	Number(13,2)	The total sum of the line item
	1.3501(15,2)	amounts of the invoice.
		Calculated value of all line item
		amounts (Line_Item_Amount)
		associated with the vendor
		invoice.
Approved_Flag	Varchar2(1)	Approval status of the vendor
		invoice.
User_Name	Varchar2(30)	User name of the individual who
		last modified the invoice record
		in a financial system.

Field Name	Type and Size	Description
Modification_Date	Date	Date the invoice record was last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 4.51 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Control Table (Tel_Inv_Control) During the Tel_Assign_Default_Invoice_Values Routine

4.4.10.2.4 Tel_Inv_Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_Inv_Control) of the validated and matched telecom input temporary table that are affected by the Tel_Assign_Default_Invoice_Values routine.

Column Property	Property Value
Purpose	Foreign key referencing the header table. This field will capture a sequentially generated number that will be applied to all records within the data batch as the records are transferred to the MSI tables. Assigned by the Tel_Assign_Default_Invoice_Values routine based upon the MSI_M00_Header_Batch_No_Seq.
Field Name	Batch_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Yes
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	This field will capture the invoice type of the record. This will be populated with 'Telcom' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Invoice_Type
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes

Column Property	Property Value
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the invoice number of the record. This will be populated by the Tel_Assign_Default_Invoice_Values routine if the Payment_Type on the Tel_Inv_Detail table is equal to 'SF1081'. If the Payment_Type on the Tel_Inv_Detail is equal to 'EFT' or 'Check' the Invoice_No field will be populated during the Tel_Input_Load routine from the input file.
Field Name	Invoice_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	FYMONITEM_TYPE
Required	Yes
System Generated	If Payment_Type on the Tel_Inv_Detail is equal to 'SF1081' enter a string of characters in the following format: Fiscal Year from the Fiscal_Year field on the Tel_Inv_Detail table for the current record, Month from the Invoice_Date field on the Tel_Inv_Control table for the current record, Item_Type from the Item_Type field on the Tel_Inv_Detail table for the current record. If Payment_Type on the Tel_Inv_Detail is equal to 'EFT' or 'Check' do not enter or change the Invoice_No value.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See System Generated
Validation Rules	 Invoice_No and Sub_Invoice_No combination must be unique. Cannot contain characters '/', '*' or 'RMT'.

Column Property	Property Value
Purpose	This field will capture the invoice number of the record. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Sub_Invoice_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes

Column Property	Property Value
System Generated	This field will be verified against AP_Control to ensure that the sub-invoice number is unique for each combination of Vendor_No, Vendor_ID and Invoice_No. For each combination of Vendor_No, Vendor_ID and Invoice_No on the Tel_inv_Control table the routine will execute a query on AP_Control for the same Vendor_No, Vendor_ID and Invoice_No. If a duplicate record is found the query will return the highest Sub_Invoice_No from AP_Control. It will update the Sub_Invoice_No on Tel_Inv_Control with the returned Sub_Invoice_No incremented by '1'. The routine will then execute a query on Tel_Inv_Control for the same Vendor_No, Vendor_ID and Invoice_No to determine if other duplicate records are present within the table. If other duplicates are returned the routine will increment their Sub_Invoice_No by '1' to ensure the records are unique within Tel_Inv_Control and AP_Control.
	If the query returns no duplicate records within AP_Control is will set the Sub_Invoice_No to '0'. The routine will then execute a query on Tel_Inv_Control for the same Vendor_No, Vendor_ID and Invoice_No to determine if duplicate records are present within the table. If other duplicates are returned the routine will increment their Sub_Invoice_No by '1' to ensure the records are unique within Tel_Inv_Control.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See System Generated
Validation Rules	Sub_Invoice_No can not be greater than '9999'. If the returned value is '9999' enter '9999' for the record. The record will not pass the Standard Interface validation checks.

Column Property	Property Value
Purpose	This field will capture the received date of the invoice record. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Received_Date
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Set equal to the Invoice_Date on the Tel_Inv_Control table.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the document source of the invoice record. This will be populated with 'NONE' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Document_Source
Table Name	Tel_Inv_Control

Column Property	Property Value
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the matched document type for the invoice record. This will be populated with 'NONE' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	PO_Type
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the matched document number for the invoice record. This will be populated with '0' (zero) by the Tel_Assign_Default_Invoice_Values routine.
Field Name	PO_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the matched document release number for the invoice record. This will be populated with '0' (zero) by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Release_No
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field is designed to capture the appropriation symbol for making payment to another Federal agency. This field will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Approp_Symbol
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field is designed to capture the agency location code. This field will NOT be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Agency_Location_Code
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the fast payment flag for the invoice record. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Fastpay_Flag
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the prompt payment flag for the invoice record. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Prompt_Pay_Flag
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the net payment days for the first set of terms for the invoice record. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Net_Days1
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No

Column Property	Property Value
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the discount method for the invoice record. This will NOT be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Discount_Flag1
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the percent or amount of discount for the first set of terms for the invoice record. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Discount_Amount1
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the discount days for the first set of terms for the invoice record. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.

Column Property	Property Value
Field Name	Discount_Days1
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the net payment days for the second set of terms for the invoice record. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Net_Days2
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the discount method for the invoice record. This will NOT be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Discount_Flag2
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the percent or amount of discount for the second set of terms for the invoice record. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Discount_Amount2
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the discount days for the second set of terms for the invoice record. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Discount_Days2
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field is designed to capture the total amount of the invoice record. This field will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Invoice_Amount
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will calculate the sum of the line item amounts of the invoice record. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Net_Invoice_Amount
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Add the Unit_Price from the Tel_Inv_Detail table for all line items where the Trans_No is equal on the Tel_Inv_Control and Tel_Inv_Detail tables.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the approval flag for the invoice record. This will be populated with 'Y' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Approved_Flag
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the user name of the last individual to run the Telecommunications Interface. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	User_Name
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A

Column Property	Property Value
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field will capture the date the Telecommunications Interface was run. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Modification_Date
Table Name	Tel_Inv_Control
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC (SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the terminal code through which the input data batch was last modified. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Device_Name
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 4.52 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Control Table (Tel_Inv_Control) During the Tel_Assign_Default_Invoice_Values Routine

4.4.10.2.5 Tel_Inv_Detail Table Overview

The document table below describes the detail table of the validated and matched telecom input temporary table Tel_Inv_Detail. Only the fields that may be affected by the Tel_Assign_Default_Invoice_Values routine are documented below.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the Vendor Invoice Transaction data batch. Part of the Primary Key of the table.
Item_Type	Varchar2(6)	The item type for the detail line of the vendor invoice.
Line_No	Number(3)	The Multiple Distribution Line (MDL) number for the detail line of the vendor invoice.
RI_Method	Varchar2(1)	Indicates whether the line item is (Q) quantity or (D) dollar based.
Default_Matching_Flag	Varchar2(1)	Indicates whether default matching should be used or not.
PO_Flag	Varchar2(1)	Indicates whether the vendor invoice should be matched against a Purchase Order document or not.
RT_Flag	Varchar2(1)	Indicates whether the vendor invoice should be matched against a Receiving Ticket document or not.
AC_Flag	Varchar2(1)	Indicates whether the vendor invoice should be matched against a Acceptance document or not.
Prompt_Pay_Type	Varchar2(6)	Prompt pay type for this item.
Trade_In	Varchar2(1)	Indicates whether the line item is a trade in or not.
V1099_Flag	Varchar2(1)	Indicates whether the line item is included on a vendor 1099 or not.
Withhold_Flag	Varchar2(1)	Indicates whether the line item is a withhold item or not.
Withhold_Percent	Number(4,2)	Indicates the percent of the line item to withhold.
Discount_Flag	Varchar2(1)	Indicates whether the line item is subject to a discount or not.
Holdback_Flag	Varchar2(1)	Indicates whether the line item is subject to a holdback or not.
Holdback_Amount	Number(13,2)	Indicates the amount of holdback.
Holdback_Type	Varchar2(1)	Identifies the type of holdback.

Field Name	Type and Size	Description
Emp_No	Number(6)	Employee number associated with this line item.
Fiscal_Year	Number(4)	The Fiscal Year in which the funds for the line item will be taken from.
GL_End_Date	Date	The GL period under which the transaction will fall.
Qty	Number(9,3)	Quantity for the account distribution.
Line_Item_Amount	Number(13,2)	Line item amount.
Schedule_Type	Varchar2(6)	Type of the SF1166 schedule.
Schedule_No	Varchar2(15)	The Schedule Number of the Item/MDL.
Schedule_Date	Date	The date of the Schedule Number of the Item/MDL.
User_Name	Varchar2(30)	User name of the individual who last modified the invoice record in a financial system.
Modification_Date	Date	Date the invoice record was last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 4.53 - Overview Processing Logic for the Validated and Matched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail) During the Tel_Assign_Default_Invoice_Values Routine

4.4.10.2.6 Tel_Inv_Detail Table Detailed Review

The document table below describes the processing logic for the detail table of the validated and matched telecom input temporary table Tel_Inv_Detail. Only the fields that may be affected by the Tel_Assign_Default_Invoice_Values routine are documented below.

Column Property	Property Value
Purpose	Foreign key referencing the control table. This field will capture a sequentially generated number that will be applied to all records within the data batch as the records are transferred to the MSI tables. Assigned by the Tel_Assign_Default_Invoice_Values routine based upon the MSI_M00_Header_Batch_No_Seq.
Field Name	Batch_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Yes
Default Value	N/A
Processing Logic	

Column Property	Property Value
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	This field will capture the item type of the line item. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Item_Type
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Item_Type on the Tel_Inv_Detail table is equal to the data captured in the global variable for the Select_Interface_Item_Type on the TEL201 screen.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the multiple distribution line (MDL) for the line item. This will be populated with '1' (one) by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Line_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the RI method (quantity or dollar) for the line item. This will be populated with 'Q' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	RI_Method
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A

Column Property	Property Value
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the default matching flag for the line item. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Default_Matching_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is matched against a purchase order. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	PO_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is matched against a receiving ticket. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	RT_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is matched against an acceptance document. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	AC_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the prompt pay type for the line item. This will be populated with 'STD' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Prompt_Pay_Type
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field will capture whether the line item is a trade in. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Trade_In
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is included on a vendor 1099. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	V1099_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is subject to withholding. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Withhold_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes

Column Property	Property Value
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the withhold percentage of the line item. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Withhold_Percent
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is subject to a discount. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Discount_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture whether the line item is subject to a holdback. This will be populated with 'N' by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Holdback_Flag
Table Name	Tel_Inv_Detail
Displayed	N/A

Column Property	Property Value
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the amount of holdback for the line item. This will be populated with a 'NULL' value by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Holdback_Amount
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the holdback type of the line item. This will be populated with a 'NULL' value by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Holdback_Type
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the employee number associated with the line item. This will <i>NOT</i> be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Emp_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the general ledger end date of the line item. This will NOT be populated by the Tel_Assign_Default_Invoice_Values routine. This value will be derived by the Standard Interface.
Field Name	GL_End_Date
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	No
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the quantity of the account distribution for the line item. This will be populated with '1' (one) by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Qty
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the schedule type for the line item. This will be populated with 'MISC' by the Tel_Assign_Default_Invoice_Values routine if not already populated by the Tel_Assign_Schedule_No_Values routine.
Field Name	Schedule_Type
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	Determine if populated.
Validation Rules	 If already populated do not assign a value during the Tel_Assign_Default_Invoice_Values routine. If not populated assign 'MISC' during the Tel_Assign_Default_Invoice_Values routine.

Column Property	Property Value
Purpose	This field will capture the schedule number for the line item. This will be populated with '0' (zero) by the Tel_Assign_Default_Invoice_Values routine if not already populated by the Tel_Assign_Schedule_No_Values routine.
Field Name	Schedule_No
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	Determine if populated.
Validation Rules	 If already populated do not assign a value during the Tel_Assign_Default_Invoice_Values routine. If not populated assign '0' (zero) during the Tel_Assign_Default_Invoice_Values routine.

Column Property	Property Value
Purpose	This will be NOT populated by the Telecommunications Interface routine.
Field Name	Schedule_Date
Table Name	Tel_Inv_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the user name of the last individual to run the Telecommunications Interface. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	User_Name
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field will capture the date the Telecommunications Interface was run. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Modification_Date
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC (SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required

Column Property	Property Value
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the terminal code through which the input data batch was last modified. This will be populated by the Tel_Assign_Default_Invoice_Values routine.
Field Name	Device_Name
Table Name	Tel_Inv_Detail
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 4.54 - Detailed Review of the Processing Logic for the Validated and Matched Telecom Input Temporary Table Detail Table (Tel_Inv_Detail) During the Tel_Assign_Default_Invoice_Values Routine

4.4.10.3 Output

This section lists the database tables that will be affected by the actions of the Tel_Assign_Default_Invoice_Values routine. The table below lists the database tables where the Tel_Assign_Default_Invoice_Values routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Inv_Header	No	Yes	No	Temporary Transaction Table (for the validated and matched telecom input temporary table).
Tel_Inv_Control	No	Yes	No	Temporary Transaction Table (for the validated and matched telecom input temporary table).
Tel_Inv_Detail	No	Yes	No	Temporary Transaction Table (for the validated and matched telecom input temporary table).

Table 4.55 - Output Tables Affected by the Tel_Assign_Default_Invoice_Values Routine

4.4.11 Generate Telecom Invoice Output Table

The Tel_Invoice_Output_Generate routine is the last routine to be executed by the Telecommunications Interface Invoice Generation Process against the

records within the temporary table. It is designed to copy all data within the validated and matched telecom input temporary table, that has been fully populated and reformatted, into an Oracle Intermediary table.

The following columns will not be copied to the Standard Interface tables as these columns are only used for Telecommunications Interface processing:

Table Name	Field Name	Type and Size	Description
Tel_Inv_Control	Input_Vendor_Code	Varchar2(16)	Input Vendor Code.
Tel_Inv_Detail	FIMA_Org_Code	Varchar2(6)	FIMA Organizational Code.
Tel_Inv_Detail	FIMA_Task_Code	Varchar2(6)	FIMA Task Code.
Tel_Inv_Detail	FIMA_Phase_Code	Varchar2(2)	FIMA Phase Code.
Tel_Inv_Detail	FIMA_Obj_Class	Varchar2(4)	FIMA Object Class.

Table 4.56 - Telecommunications Interface Table Columns That Will Not Be Copied

4.4.11.1 Input

The following sections list all tables needed prior to the execution of the Tel_Invoice_Output_Generate routine. The table below lists the database tables that will be accessed by the Tel_Invoice_Output_Generate routine.

Table Name	Screen	Usage	Record Requirement
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid employee records
Interface_User_Detail	INT001	Reference	Active and valid directory locations
Tel_Maint_Control	TEL001	Base Table	Base table record of the maintenance control table
Tel_Maint_Vendor	TEL001	Base Table	Base table record of the maintenance detail table
Tel_Inv_Header	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Control	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table
Tel_Inv_Detail	N/A	Temporary Transaction Table	Capture invoice record values on the validated and matched telecom input temporary table

Table 4.57 - Tel_Invoice_Output_Generate Routine Input Tables

4.4.11.2 Processing Logic of the Telecom Invoice Output Table

All fields within the three tables of the validated and matched telecom temporary table will be affected by the Tel_Invoice_Output_Generate routine. Therefore, details of the processing logic will not be documented below.

4.4.11.3 Output

This section lists the database tables that will be affected by the actions of the Tel_Invoice_Output_Generate routine. The table below lists the database tables where the Tel_Invoice_Output_Generate routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
MSI_M00_Header	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications invoice records
MSI_M01_Control	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications invoice records
MSI_M02_Detail	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications invoice records

Table 4.58 - Output Tables Affected by the Tel_Invoice_Output_Generate Routine

4.4.12 Generate Invoice Generation Processing Status Report

After the Tel_Invoice_Output_Generate routine is complete the Telecommunications Interface will call the

Tel_Invoice_Generation_Status_Report routine. This routine will generate the Invoice Generation Status Report (TEL201b) and write the report to the directory as specified on the INT001 screen. The Invoice Generation Status Report will capture overall invoice generation processing success and failure, total number of invoice records read and the total dollar figure of the processed invoice records. The purpose of the report is to provide end-users with a summary of the invoice generation processing results.

At the conclusion of the routine the validated and matched telecom temporary table will be deleted. For input data batches that utilize Oracle intermediary tables instead of ASCII files the Processed_Flag field will also be updated to 'Y'.

Depending upon the reporting selection entered on the TEL201 screen this report will be sent directly to a printer or e-mailed to the end-users e-mail account. Reports that are e-mailed will be designed to be imported into Microsoft Excel similar to the logic developed for QR101 reports.

4.4.12.1 Input

The following sections list all tables needed prior to the execution of the Tel_Invoice_Generation_Status_Report routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_Inv_Header	N/A	Reference	Record values captured in the header table of the validated and unmatched telecom input temporary table
Tel_Inv_Control	N/A	Reference	Record values captured in the control table of the validated and unmatched telecom input temporary table
Tel_Inv_Detail	N/A	Reference	Record values captured in the detail table of the validated and unmatched telecom input temporary table
Tel_Maint_Control	TEL001	Reference	Interface File Types from active and valid header records
Tel_Maint_Vendor	TEL001	Reference	Associated vendor information of selected interface file type
Parameter	N/A	Store Screen Values	N/A

Table 4.59 - Tel_Invoice_Generation_Status_Report Routine Input Tables

4.4.12.2 Report Format

The following is the screen shot of the TEL201b - Telecommunications Interface Invoice Generation Status Report. The report will capture the processing results of the most recent invoice generation processing routines.

Subject: Invoice Generation report results Date: Wed, 11 Sep 2002 11:16:11 -0400 (EDT) From: CAMS-MAIL-CENTER@rdc.noaa.gov CREATION RUN DATE: 09/11/2002 COMMERCE ADMINISTRATIVE MANAGEMENT SYSTEM USER ID: OPS\$NFROBLEG NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION REPORT ID: TEL201R PAGE : INSTANCE: GP2 TEL201b - CAMS/CFS TELECOMMUNICATIONS INTERFACE INVOICE GENERATION STATUS REPORT Criteria: Interface File Type Processed: TIScript39Step1.txt Name File Processed: Item Type Processed: Batch Number of File Processed: Summary of Processing: Total Number of Total Dollar Figure of Processed Records Process Records \$224.43 ***** END OF THE REPORT *****

Figure 8.0 - Layout of the TEL201b - Invoice Generation Status Report

4.4.12.3 TEL201b - Invoice Generation Processing Status Report Processing Logic

4.4.12.3.1 TEL201b - Invoice Generation Processing Status Report Overview

The document table below provides an overview of the processing logic associated with the columns on the TEL201b - Invoice Generation Status Report.

Report Label	Field Name	Type and Size
Creation Run Date	Date	Date
Report ID	Report_ID	Varchar2(10)
Instance	Instance	Varchar2(10)
User ID	User_ID	Varchar2(30)
Page	Page	Varchar2(3)
Interface File Type Processed:	Processed_Interface_File_Type	Varchar2(4)
Name/Batch Number of File	Processed_File_Name_Batch	Varchar2(30)
Processed:		
Interface Item Type Processed:	Processed_Interface_Item_Type	Varchar2(6)

Report Label	Field Name	Type and Size
Total Number of Processed Records	No_Records_Processed	Number(5)
Total Dollar Figure of Processed Records	Total_Dollar_Figure	Number(12,2)

Table 4.60 - Overview Processing Logic for the TEL201b - Invoice Generation Status Report

4.4.12.3.2 TEL201b - Invoice Generation Processing Status Report Detailed Review

The document table below describes in detail the processing logic associated with the columns shown in the TEL201b - Invoice Generation Status Report.

Field Property	Property Value
Report Label	Creation Run Date:
Purpose	This field captures the execution date of the report. This field is part of the header record of the report.
Field Name	Date
Table Name	N/A
Format	DD-MON-RRR, Left Align
Calculation Logic	System generated based upon the system date.

Field Property	Property Value
Report Label	Report ID:
Purpose	This field captures the report ID within CAMS/CFS. This field is part of the header record of the report.
Field Name	Report_ID
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Instance:
Purpose	This field captures the instance in which the report was generated. This field is part of the header record of the report.
Field Name	Instance
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	User ID:
Purpose	This field captures the Oracle Database User ID of the end-user that initiated the original execution of the processing that generated the report. This field is part of the header record of the report.
Field Name	User_ID

Field Property	Property Value
Table Name	N/A
Format	Right Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Page:
Purpose	This field captures the page number of the report. This field is part of the header record of the report.
Field Name	Page
Table Name	N/A
Format	999, Right Align
Calculation Logic	System generated based on the number of pages for the report.

Field Property	Property Value
Report Label	Interface File Type Processed:
Purpose	This field captures the Select_Interface_File_Type as selected on the TEL201 screen.
Field Name	Processed_Interface_File_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Interface Item Type Processed:
Purpose	This field captures the Select_Interface_Item_Type as selected on the TEL201 screen.
Field Name	Processed_Interface_Item_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value		
Report Label	Name/Batch Number of File Processed:		
Purpose	This field captures the Select_File_To_Process as selected on the TEL201 screen if the Record_Format_ASCII field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type is set to 'Y'. This field captures the Select_Input_Date as selected on the TEL201 screen if the Record_Format_Table field on the Tel_Maint_Control table associated with the TEL001 screen for the selected interface file type is set to 'Y'.		
Field Name	Processed File Name Batch		
Table Name	N/A		
Format	Left Align		
Calculation Logic	N/A		

Field Property	Property Value
Report Label	Total Number of Processed Records
Purpose	This field captures the total number of invoice control records captured in the Tel_Inv_Control table of the validated and matched telecom temporary table. By referencing the number invoice control records the number will correspond to the number on invoice control records to be generated in CAMS/CFS.
Field Name	No_Records_Processed
Table Name	N/A
Format	Center Align
Calculation Logic	N/A

Field Property	Property Value			
Report Label	Total Dollar Figure of Processed Records			
Purpose	This field calculates the total dollar figure of line items captured in the Tel_Inv_Detail table of the validated and matched telecom temporary table.			
Field Name	Total_Dollar_Figure			
Table Name	N/A			
Format	\$999,999,999,999. Center Align			
Calculation Logic	Summation of all values captured in the Unit_Price field on the Tel_Inv_Detail table.			

Table 4.61 - Detailed Review Processing Logic for the TEL201b - Invoice Generation Status Report

4.4.12.4 Output

This section lists the database tables that will be affected by the actions of the Tel_Invoice_Generation_Status_Report routine. The table below lists the database tables where the Tel_Invoice_Generation_Status_Report routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Inv_Header	No	No	Yes	Temporary Transaction Table (for the validated and matched telecom input temporary table)
Tel_Inv_Control	No	No	Yes	Temporary Transaction Table (for the validated and matched telecom input temporary table)
Tel_Inv_Detail	No	No	Yes	Temporary Transaction Table (for the validated and matched telecom input temporary table)

Table 4.62 - Output Tables Affected by the Tel_Invoice_Generation_Status Report Routine

4.4.13 Requirements Met in Previous Sections

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services

Requirements Version 5.2 for the requirement number, applicable page and description of the requirement.

Requirement Number	Page	Description	
CP - 8	14	The Telecommunications Interface will generate disbursements for OPAC payments.	
CP - 11	15	For all non-OPAC disbursements, the Telecommunications Interface will place the remittance information for the vendor in the CAMS/CFS invoice number field.	
CP - 13	16	For all file formats that do not contain the CAMS/CFS accounting code structure, the Telecommunications Interface will convert the FIMA accounting code to the CAMS/CFS accounting codes.	
CP - 15	17	The Telecommunications Interface will pass disbursement information to CAMS/CFS through a standard mechanism, either the existing IVP routine or the to-be-developed Standard Interface.	

Table 4.63 - Requirements Met in the Previous Section

- 4.5 Telecommunications Interface Invoice Generation Processing Risks
 - In order for vendor payments to be successfully linked to shell invoices that have been generated by estimated accrual records the Reference Number (FIMA Document Number) must be consistent throughout the entire fiscal year. If this value is not consistent the records will not be linked and the shell invoices and estimated accrual records will have to be manually reversed.
 - The Telecommunications Interface does not perform any validations of the vendor or accounting information against CAMS/CFS. If any errors are included within the input files that information will be passed to the Standard Interface where the record(s) will fail and will have to be corrected individually. 'Mass Change' functionality, the ability to modify multiple records simultaneously, is currently not available in the Standard Interface.
- 4.6 Telecommunications Interface Invoice Generation Processing Issues
 - The TELOPS system will not be available in the production environment prior to the 'go-live' date for CAMS/CFS. Therefore, it will be necessary to process the FTS2001 flat file that is produced by NWS. The Telecommunications Interface is not designed to process the FTS2001 file in it's current format. A workaround will have to be developed to process these records.

The data that is received for DOT Travel Subsidy Payments does not contain all of the information required to generate a CAMS/CFS vendor invoice and therefore can not be readily made into the format needed for processing by the Telecommunications Interface. A workaround will have to be developed to process these records.

- 5 Telecommunications Interface One-Month Basis Estimated Accrual Generation
- 5.1 Purpose of Telecommunications Interface One-Month Basis Estimated Accrual Generation

The Telecommunications Interface One-Month Basis Estimated Accrual Generation process will allow users to generate one month of estimated accrual records based on a previous month's invoice records. The TEL202 (Telecommunications Interface One-Month Basis Estimated Accrual Initiation Screen) will be used to execute the one-month basis estimated accrual generation process. The end-users will have the ability to select the interface file type, the month on which to base the estimates and the month for which to generate the estimated accrual records.

5.2 Process Flow of Telecommunications Interface One-Month Basis Estimated Accrual Generation

The following diagrams illustrate the typical Telecommunications Interface One-Month Basis Estimated Accrual Generation processes flow as outlined in the listing below:

- 1. Validate unique parameters
- Determine estimated accrual records
- Assign default estimated accrual values
- 4. Generate the telecommunications interface output table
- 5. Generate the one-month basis estimated accrual generation processing report

5.2.1 Telecommunications Interface One-Month Basis Estimated Accrual High Level Process Flow

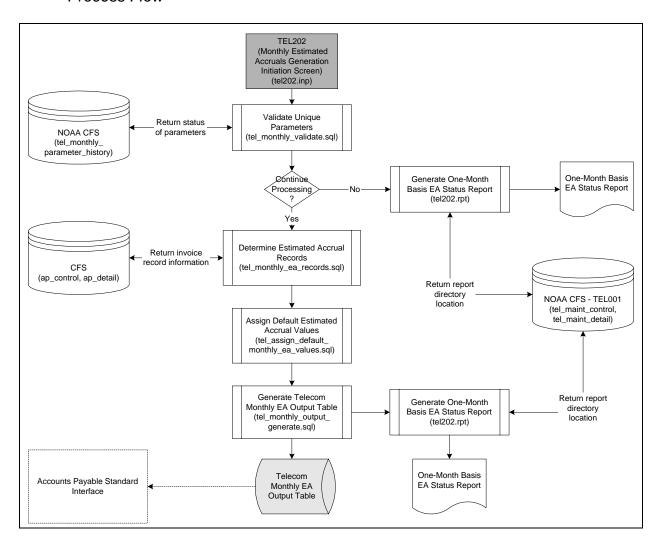


Figure 9.0 - One-Month Basis Estimated Accrual Process Flow

- 5.3 Telecommunications Interface One-Month Basis Estimated Accrual Generation Sub-Processing Logic
- 5.3.1 TEL202 One-Month Basis Estimated Accruals Generation Initiation Screen

5.3.1.1 Form Layout

The TEL202 screen will be developed as a Character screen using Oracle Forms Version 3.0. The TEL202 screen will be used to execute the one-month basis estimated accrual generation processing. The execution routine called by this screen, in turn will call all of the routines necessary to complete the processing of the one-month basis estimated accrual records into Standard Interface ready estimated accrual records. The screen is comprised of one data block that will be used to enter the requested parameters that shape the processing.

5.3.1.1.1 TEL202 - Telecommunications Interface One-Month Basis Estimated Accrual Initiation Screen Layout

	ON THERESON MONTH	. 50 75000007700	1
tel 202 TELEC	UM INTERFACE MUNIFILY	? EA TRANSACTION SO	CHEEN
Enter Parameters f	or One-Month Basis B	EA Record Generatio	ın:
Selection:		Email/	Print:
Interface File Typ	e: Item Type:	File Format:	
Report to Print:			
Month for which to	Generate Estimated	Accruals:	
Month on which to	Base Estimated Accru	uals:	
Printer:	Copies:	Print Time:	
			st><ren< td=""></ren<>
			VET 3 CAN TICE

Figure 10.0 - TEL202 - Telecommunications Interface One-Month Basis Estimated Accrual Initiation Screen Layout

5.3.1.2 Operating Rules

The following sections describe the operating rules applicable to the TEL202 screen. Operating Rules differ from business rules in that they are directly associated with a particular operation as opposed to business rules that are associated more generally with the whole application.

5.3.1.2.1 Create a Record (Initiate One-Month Basis Estimated Accrual Process)

- Users are allowed to select the interface file type from a list of values.
- Users are allowed to select the interface item type from a list of values based upon the interface file type and interface file format selected.
- Users are allowed to select the interface file format from a list of values based upon the interface file type selected.
- Users are allowed to select the General Ledger End Date of the month for which to generate estimated accrual records.
- Users are allowed to select the General Ledger End Date of the month on which to base the generation of the estimated accrual records.
- Users are able to e-mail or print current processing status reports.
- Users are able to e-mail or print previously generated One-Month Basis Estimated Accrual Processing Status Report from the initiation screen.

5.3.1.2.2 Modify a Record

Users are not allowed to modify a record on this screen.

5.3.1.2.3 Save a Record

Users are not allowed to save a record on this screen.

5.3.1.2.4 Delete a Record

Users are not allowed to delete a record on this screen.

5.3.1.2.5 Queries

Users are not allowed to guery on this screen.

5.3.1.3 Business Rules

The TEL202 screen will be used to generate one month of estimated accrual records for a specified line item type based upon one month of invoice records.

- Only authorized and established end-users will have access to this screen.
- This process can be executed as many times as needed by an authorized and established end-user.
- Zero and negative estimated accrual amounts will not be generated by the Telecommunications Interface.
- This process can only be executed for months after October 2002, as historical data (FY 01) will not exist in CFS for the Invoice Type 'TELCOM'.
- Estimated accrual records can only be generated within the current fiscal year based upon invoice records recorded within the current fiscal year.

5.3.1.4 Input

The following sections list all tables needed prior to executing the onemonth basis estimated accrual generation process from the TEL202 screen. The table below lists the database tables where the screen is obtaining the information.

Table Name	Screen	Usage	Record Requirement
Tel_Maint_Control	TEL001	LOV	Item Types from active and valid header records
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid employee records
Interface_User_Detail	INT001	Reference	Active and valid directory locations
AP_Control	PM003	Reference	Invoice record details
AP_Detail	PM003	Reference	Invoice record details
Tel_Monthly_Validate_Param eter	TEL202	Reference	History of TEL202 execution parameters
Parameter	N/A	Store Screen Values	N/A

Table 5.0 - TEL202 (Telecommunications Interface One-Month Basis Estimated Accrual Initiation Screen) Input Tables

5.3.1.5 Processing Logic for the TEL202 Screen

5.3.1.5.1 TEL202 Screen Processing Logic Overview

The following document table lists all screen labels and applicable field names (non-base table) within the TEL202 screen. All values will be captured in the parameter table.

Screen Label	Field Name	Type and Size
Selection	Selection	Varchar2(1)
Email/Print	Report_Form	Varchar2(1)
Select Interface File Type to Process	Select_Interface_File_Type	Varchar2(4)
Select Interface Item Type to Process	Select_Interface_Item_Type	Varchar2(6)
Select Interface File Format to Process	Select_Interface_File_Format	Varchar2(13)
Select Report to Print	Select_Report_To_Process	Varchar2(16)
Select Month FOR Which to Generate Estimated Accruals	Generation_Month	Varchar2(9)
Select Month ON Which to Base Estimated Accruals	Basis_Month	Varchar2(9)
Printer	Printer	Varchar2(15)
Copies	Copies	Number (3)
Print Time	Print_Time	Varchar2(20)

Table 5.1 - Overview of the Processing Logic of the TEL202 Screen

5.3.1.5.2 TEL202 Screen Processing Detailed Review

The following sections describe the field descriptions and the processing logic for each field associated with the TEL202 screen.

Field Property	Property Value
Screen Label	Selection
Purpose	This field captures processing selection criterion of the end-user. The user will be able to select whether they wish to process a batch of estimated accrual records or print the processing status report from a previous execution of the Telecommunications Interface one-month basis estimated accrual initiation process.
Field Name	Selection
Table Name	N/A
Displayed	Yes
Format	Only display number of selection criterion.
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No

Field Property	Property Value	
Default Value	N/A	
Screen Display Format		
List Box	'1 - Process Estimated Accrual Data Batch' '2 - Generate Report from Previous Execution'	
Processing Logic		
Validation Check	See List Box	
Validation Rules	See List Box, Format and Required	
Tab Position	1	

Field Property	Property Value		
Screen Label	Email/Print		
Purpose	This field captures the output report format selection criterion of the end-user. The user will be able to select whether they wish to print the report directly from the screen at the conclusion of processing or e-mail the report to their e-mail account.		
Field Name	Report_Form		
Table Name	N/A		
Displayed	Yes		
Format	Only 'E' or 'P' allowed.		
Required	Value must be selected prior to execution of the process.		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	'E'		
Screen Display Format	Screen Display Format		
List Box	'E - E-mail report to account' 'P - Send report to printer'		
Processing Logic			
Validation Check	See List Box		
Validation Rules	See List Box, Format and Required		
Tab Position	2		

Field Property	Property Value
Screen Label	Select Interface File Type to Process
Purpose	This field captures all active interface file types that have been established for the end-user on the INT001 and TEL001 screens. The end user must select the interface file type to process.
Field Name	Select_Interface_File_Type
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A

Field Property	Property Value
Screen Display Format	
LOV	Return all values for Interface_Type with an Active_Status = 'Y' from the Interface_Control table on screen INT001 where the Emp_No of the end-user has been established in the Emp_No field with an Active_Status ' 'Y' from the Interface_User_Detail table on screen INT001 and File_ID = 'INPUT' from the Interface_Dir_Detail table on the screen INT001. Union Return all values for Interface_File_Type with an Active_Status = 'Y' from the Tel_Maint_Control table on screen TEL001.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	3

Field Property	Property Value
Screen Label	Select Interface Item Type to Process
Purpose	This field captures all active item types as entered on TEL001 for the selected interface file type and file format. The end user must select the item type to process.
Field Name	Select_Interface_Item_Type
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for Item_Type from the Tel_Maint_Control table where the global variable for the Select_Interfce_File_Type on the TEL203 screen is equal to the Interface_File_Type respectively and the Active_Status is equal to 'Y' as entered on the Tel_Maint_Control table on screen TEL001.
	If only one record is returned in the LOV populate the Select_Interface_Item_Type with that value.
	If more than one record is returned in the LOV, require the user to select a value.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	4

Field Property	Property Value
Screen Label	Select Interface File Format to Process

Field Property	Property Value
Purpose	This field captures all active interface file formats entered on TEL001 for the selected interface file type. The end user must select the interface file format to process.
Field Name	Select_Interface_File_Format
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for File_Format from the Tel_Maint_Control table where the global variable for the Select_Interfce_File_Type and Select_Interface_Item_Type on the TEL203 screen is equal to the Interface_File_Type and Item_Type respectively and the Active_Status is equal to 'Y' as entered on the Tel_Maint_Control table on screen TEL001. If only one record is returned in the LOV populate the Select_Interface_File_Format with that value. If more than one record is returned in the LOV, require the user to select a value.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	5

Field Property	Property Value
Screen Label	Select Report to Print
Purpose	If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field this field will not be available.
	If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field captures all report names in the determined directory based upon the selected interface file type and selected interface file format setup on TEL001 and INT001. The end user must select the report to print.
Field Name	Select_Report_To_Process
Table Name	N/A
Displayed	Yes
Format	N/A
Required	No, if the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field.
	 Yes, If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field.
System Generated	No
Primary Key	No

Field Property	Property Value
Unique	No
Default Value	N/A
Screen Display Format	
LOV	If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field return all report file names as established in Directory_Location for the File_ID = 'Report' from the Interface_Dir_Detail table on the screen INT001 where the Interface_File_Type and File_Format from the Interface_Control table on screen INT001 is equal to the selected interface file type and selected interface file format respectively. When executed report files will be sent to the Unix printer as established for the end-user User ID.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	5, if option 2 is selected.

Field Property	Property Value
Screen Label	Select Month FOR Which to Generate Estimated Accruals
Purpose	This field captures the month and the current fiscal year for which to generate estimated accrual records. The end user must select the generation month.
Field Name	Generation_Month
Table Name	N/A
Displayed	Yes
Format	Mon-YYYY
Required	 If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field a value must be selected prior to execution of the process. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be available.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
List Box	The List Box displays a list of values of all available months plus the current fiscal year. Available months are November through September of the current fiscal year.
Processing Logic	
Validation Check	 See List Box. Value selected must be within the current fiscal year based upon the system date.
Validation Rules	See List Box, Required and Format.
Tab Position	6, if Select_Report_To_Process is not accessible.

Field Property	Property Value
Screen Label	Select Month ON Which to Base Estimated Accruals

Field Property	Property Value
Purpose	This field captures the month and the current fiscal year for which to base the estimated accrual record generation. The end user must select the basis month.
Field Name	Basis_Month
Table Name	N/A
Displayed	Yes
Format	Mon-YYYY
Required	 If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field a value must be selected prior to execution of the process. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be available.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
List Box	The List Box displays a list of values of all available months plus the current fiscal year. Available months are October through August of the current fiscal year.
	Basis_Month must be less than the Generation_Month.
Processing Logic	
Validation Check	 See List Box. Value selected must be within the current fiscal year based upon the system date.
Validation Rules	See List Box, Required and Format.
Tab Position	7, if Select_Report_To_Process is not accessible.

Field Property	Property Value
Screen Label	Printer
Purpose	This field captures the default UNIX printer as established for the end-user.
Field Name	Printer
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	Default UNIX printer of the end-user
Screen Display Format	
LOV	All available UNIX printers
Processing Logic	
Validation Check	N/A
Validation Rules	This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.

Field Property	Property Value
Tab Position	7, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.

Field Property	Property Value	
Screen Label	Copies	
Purpose	This field captures the number of copies that will be sent to the selected printer.	
Field Name	Copies	
Table Name	N/A	
Displayed	Yes	
Format	999	
Required	Yes	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	1	
Screen Display Format		
Text Box	Number of copies to be printed.	
Processing Logic		
Validation Check	N/A	
Validation Rules	 Cannot be greater than 999. This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field. 	
Tab Position	8, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.	

Field Property	Property Value	
Screen Label	Print Time	
Purpose	This field captures when the time of the current day when the print job will be	
	executed.	
Field Name	Print_Time	
Table Name	N/A	
Displayed	Yes	
Format	DD-MON-YYYY	
Required	Yes	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	System Date	
Screen Display Format		
Text Box	Desired time of the current day when the print job will be executed	
Processing Logic		
Validation Check	Cannot be prior to the system time	
Validation Rules	Must use military time (e.g 2:00 PM = 14:00)	
	This field is only available if the end-user select option '2' in the	
	Selection field and option 'P' from the Report_Form field.	

Field Property	Property Value
	9, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.

Table 5.2 - Detailed Review of the Processing Logic of the TEL202 Screen

5.3.1.6 Security

The existing CAMS/CFS menu security and the CAMS/CFS database roles will be used for implementing the security on the new screens and the objects developed, respectively.

5.3.1.7 Error Handling Messages

The following table lists the main error and warning messages applicable to the TEL202 screen.

Message No.	Туре	Text
1	Error	Interface File Type must be entered.
2	Error	Desired month for the generation of estimated accruals must be entered.
3	Error	Desired month on which to base the generation of estimated accruals must be entered.
4	Error	Current report process is still running. Please try again later.

Table 5.3 - Main Error and Warning Messages for the TEL202 Screen

5.3.1.8 Output

All data entered or selected on the TEL202 screen will be used as global variables through out the one-month basis estimated accrual generation processing. At the conclusion of processing the global variables will be captured in the Parameter table.

5.3.1.9 Reports

The TEL202 process will generate one report during the processing of the one-month basis estimated accrual records. The One-Month Basis Estimated Accrual Generation Status Report is discussed in detail in Section 5.3.6 (Generate Telecom One-Month Basis Estimated Accrual Generation Status Report). The report will be generated, e-mailed or printed and placed in the output directories as established on INT001 for the applicable Interface File Type at the conclusion of processing.

If the end-user elects to print a previously generated One-Month Basis Estimated Accrual Processing Status Report the report will be sent to the Unix printer of the end-user based upon the User ID.

5.3.1.10 Requirements Met in the Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page number and description of the requirement.

Requirement Number	Page	Description
CP - 5	14	The Telecommunications Interface will generate estimated accruals for TELOPS and GSA BAC system files. The Telecommunications Interface shall prompt the user for which month to generate accruals for as well as allow the user to specify on which month to base those accruals.

Table 5.4 - Requirements Met in the Previous Section

5.3.2 Validate One-Month Basis Estimated Accrual Generation Unique Parameters

The Tel_Monthly_Validate routine is designed to inform the end-user if the parameters entered on the TEL202 screen have or have not been entered during a previous execution of the one-month basis estimated accrual generation process. The validation routine will utilize a parameter history table that is associated with the TEL202 screen. The table will record the Interface File Type, Interface File Format, Interface Item Type, GL_End_Dates, User ID and Process Initiation Date (with time stamp) for which the estimated accruals were generated as entered on the TEL202 screen.

When the process is executed the underlying PL/SQL will access the parameter history table to determine if the Interface File Type, Interface File Format, Interface Item Type and GL End Date combination entered on the TEL202 screen have already been used during a previous execution of the one-month basis estimated accrual generation processing. If the criteria are unique an informational message will appear indicating that the criteria entered are unique and will confirm the end-users intent to continue processing.

If the criteria are not unique the end-user will receive an informational warning. The warning will indicate that the criteria entered have already been used during a previous execution of the one-month basis estimated accrual generation processing. The message will also include the date of the processing and the user name of the individual who executed the processing. The end-user will be prompted to confirm if they wish to continue processing. If multiple rows are encountered within the parameter table, for the same Interface File Type, Interface File Format, Interface Item Type and GL_End_Date combination, the error message will be generated based upon the most recent Modification_Date (with time stamp).

If the end-user chooses to discontinue processing no one-month basis estimated accrual records will be generated. The process will call the routine to generate the One-Month Basis Estimated Accrual Generation Status Report. The report will indicate that no estimated accrual records were generated. Details of the report and the generation process are described in detail in Section 5.3.6 (Generate Telecom One-Month Basis Estimated Accrual Generation Status Report).

5.3.2.1 Input

The following sections list all tables needed prior to the execution of the Tel_Monthly_Validate routine. The table below lists the database tables that will be accessed by the validation routine.

Table Name	Screen	Usage	Record Requirement
Tel_Monthly_Validate_Param eter	TEL202	Reference	History of TEL202 execution parameters
Parameter	N/A	Store Screen Values	N/A

Table 5.5 - Tel Monthly Validate Routine Input Tables

5.3.2.2 Processing Logic of the One-Month Basis Estimated Accrual Generation Validation Table

5.3.2.2.1 Tel_Monthly_Validate_Parameter Table Overview

The document table below describes the parameter table associated with the Tel_Monthly_Validate routine.

Field Name	Type and Size	Description
Interface_File_Type	Varchar2(4)	Interface File Type of previously executed process.
Interface_File_Format	Varchar2(13)	Interface File Format of previously executed process.
Inteface_Item_Type	Varchar2(6)	Interface Item Type of previously executed process.
Generation_Month	Date	GL_End_Date of previously executed process.
User_Name	Varchar2(30)	User name of the individual who last modified the invoice record in a financial system.
Modification_Date	Date	Date the invoice record was last modified in a financial system.

Table 5.6 - Overview Processing Logic for the parameter table associated with the Tel_Monthly_Validate Routine (Tel_Monthly_Validate_Parameter)

5.3.2.3 Tel_Monthly_Validate_Parameter Table Detailed Review

The document table below describes the processing logic for the parameter table associated with the Tel_Monthly_Validate routine.

Column Property	Property Value	
Purpose	The record that includes the values captured in this column will be checked against the Interface_File_Type value captured in the global variable for the Select_Interface_File_Type field on the TEL202 screen. Upon confirmation of the end-users intent to continue processing this field will capture the Interface_File_Type as entered on the TEL202 screen in a new record.	
Field Name	Interface_File_Type	
Table Name	Tel_Monthly_Validate_Parameter	
Displayed	No	
Format	N/A	
Required	Yes upon confirmation of the end-users intent to continue processing.	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	The record that includes the values captured in this column will be checked against the Interface_File_Format value captured in the global variable for the Select_Interface_File_Format field on the TEL202 screen. Upon confirmation of the end-users intent to continue processing this field will capture the Interface_File_Format as entered on the TEL202 screen in a new record.
Field Name	Interface_File_Format
Table Name	Tel_Monthly_Validate_Parameter
Displayed	No
Format	N/A
Required	Yes upon confirmation of the end-users intent to continue processing.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value	
Purpose	The record that includes the values captured in this column will be checked against the Interface_Item_Type value captured in the global variable for the Select_Interface_Item_Type field on the TEL202 screen. Upon confirmation of the end-users intent to continue processing this field will capture the Interface_Item_Type as entered on the TEL202 screen in a new record.	
Field Name	Interface_Item_Type	
Table Name	Tel_Monthly_Validate_Parameter	
Displayed	No	
Format	N/A	
Required	Yes upon confirmation of the end-users intent to continue processing.	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value	
Purpose	The record that includes the values captured in this column will be checked against the Generation_Month value captured in the global variable for the Generation_Month field on the TEL202 screen. Upon confirmation of the endusers intent to continue processing this field will capture the Generation_Month as entered on the TEL202 screen in a new record.	
Field Name	Generation_Month	
Table Name	Tel_Monthly_Validate_Parameter	
Displayed	No	
Format	N/A	
Required	Yes upon confirmation of the end-users intent to continue processing.	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field will capture the user name of the last individual to run the Telecommunications Interface. Upon confirmation of the end-users intent to continue processing this field will capture the Oracle Database User ID of the end-user in a new record. No validations will be made against this column.
Field Name	User_Name
Table Name	Tel_Monthly_Validate_Parameter
Displayed	N/A
Format	N/A

Column Property	Property Value
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field will capture the date the Telecommunications Interface was run. Upon confirmation of the end-users intent to continue processing this field will capture the processing date of the vendor invoice generation process in a new record. No validations will be made against this column.
Field Name	Modification_Date
Table Name	Tel_Monthly_Validate_Parameter
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC (SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 5.7 - Detailed Review of the Processing Logic for the parameter table associated with the Tel_Monthly_Validate Routine (Tel_Monthly_Validate_Parameter)

5.3.2.4 Output

This sections list the database tables that will be affected by the actions of the Tel_Monthly_Validate routine. The table below lists the database tables where the Tel_Monthly_Validate routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Monthly_Validate _Parameter	Yes	No	No	Parameter table for the one-month bases estimated accrual generation process

Table 5.8 - Output Tables Affected by the Tel_Monthly_Validate Routine

5.3.3 Determine One-Month Basis Estimated Accrual Records

The Tel_Monthly_EA_Records routine is designed to generate one month of estimated accrual records based upon one month of invoice records. The routine will generate the estimated accrual records in a temporary table (header, control, item and account) upon which all additional one-month basis estimated accrual generation processing will be executed.

The Tel_Monthly_EA_Records routine will perform the following steps:

The Tel_Monthly_EA_Records routine will initially execute a query against the CAMS/CFS AP_Control and AP_Detail tables using the following criteria:

Invoice_Type = Derived from the Invoice_Type field on the TEL001 screen

ltem_Type = Equal to the global variable captured on the TEL202
screen as Select_Interface_Item_Type

Invoice_Status = 'PAID', 'OPEN' or 'INTRAN'

Approved_Flag = 'Y'

Document Source = 'NONE'

Invoice_Date = All dates within the Basis_Month as entered on TEL202

Amount = Greater than zero

RI Method = 'Q'

APC_Flag = NULL

The Invoice_Type will be derived from the Invoice_Type field on the TEL001 screen from the maintenance record where the Interface_File_Type. Item_Type and File_Format is equal to the global variable captured on the TEL201 screen as Select_Interface_File_Type, Select_Interface_Item_Type and Select_Interface_File_Format respectively.

The results of the query will be captured in temporary tables that are identical to the EA_Control, EA_Item and EA_Account tables. The following routines will then be executed within the temporary tables. At the conclusion of the routines the temporary tables will be dropped.

If no invoice records are detected within the basis month for the criteria entered in the query a popup screen will appear informing the user that 'No invoice records are present within the basis month selected.'. Processing will stop and the user will be returned to the TEL202 screen to enter different criteria for processing.

If the query has been successfully executed the Tel_Monthly_EA_Records routine will then attempt to identify identical invoice records within the temporary tables. Identical records will signify situations where multiple bills were processed for the same Reference_No within the same month. If

multiple records with the same Reference_No are identified the Telecommunications Interface will attempt to combine the records into one Estimated Accrual record with one or many line items.

The query will first attempt to identify identical records based upon the Reference_No. It will group the duplicate record's EA_Control and EA_Item values based upon the Reference_No only. The routine will use the first duplicate record's Tel_EA_Control and Tel_EA_Item values as the base for the additional records. The Unit_Price field on the Tel_EA_Item table will be the summation of the total dollar amount of the invoice records per Reference_No. The Accrued_Qty_Amount field on the Tel_EA_Item table will be defaulted to '1' for each unique Reference_No.

Then within the duplicate control and item combinations it will identify the ACCS string including Fiscal_Year and Bureau_Code and group those record's Tel_EA_Account values based upon the ACCS string.

The Amount field within each unique ACCS string on the Tel_EA_Account table will be calculated as follows:

The Qty_Accrued field within each unique ACCS string on the Tel_EA_Account table will be calculated as follows:

```
Amount (for each unique ACCS)

(Summed Amount field for each unique Reference No)

(Summed Amount field for each unique ACCS)
```

The result of the Qty_Accrued calculation will be subtracted from the Accrued_Qty_Amount field on the Tel_EA_Item table, which will always be equal to '1'. Any difference will be added to the largest Qty_Accrued value for the item number that is being processed. If multiple records are equal to the same 'largest Qty_Accrued value' within the ACCS string the difference will be added to the first occurrence. This step is necessary to ensure that the total value of the Qty_Accrued field for each line item on the Tel_EA_Account table and the Accrued_Qty_Amount field on the Tel_EA_Item table are always equal.

It is important to note that the Amount field, as generated by the Telecommunications Interface, will not be used by the Standard Interface for processing. The Standard Interface will multiply the Qty_Accrued for each ACCS string by the Unit_Price to determine the Amount of the ACCS string.

As a final step the routine will re-calculate the Unit_Price field on the Tel_EA_Item table to ensure that it's value is equal to the summation of the Amount fields on the Tel_EA_Account table. The following calculation will be performed:

Qty_Accrued (for * Unit_Price (for each unique ACCS) * Unit_Price (for the line item) = Calculated Amount (for each unique ACCS)

The Unit_Price field for the line item on the Tel_EA_Item table will be replaced with the summation of the calculated Amount fields.

The results of the query and routines will be maintained in the Tel_EA_Header, Tel_EA_Control and Tel_EA_Item and Tel_EA_Account tables of the Telecommunications Interface Estimated Accrual temporary tables. The table data mapping is discussed below.

5.3.3.1 CAMS/CFS Invoice Table to Telecommunications Interface Estimated Accrual Tables Data Mapping

The Tel_Monthly_EA_Records routine will return the following information for each record that meets the query criteria and place the data into the following database tables.

Complete descriptions of the Telecommunications Interface Estimated Accrual temporary tables is described in Section 5.3.3.3 (Processing Logic of the Telecommunications Interface Monthly Estimated Accrual Tables).

Table Source	Table Source Column Name	Table Destination	Table Destination Column Name
AP_Control	Bureau_Code	Tel_EA_Control	Bureau_Code
AP_Control	Invoice_Type	Tel_EA_Control	Invoice_Type
AP_Control	Invoice_No	Tel_EA_Control	Invoice_No
AP_Control	Document_Source	Tel_EA_Control	Document_Source
AP_Control	PO_Type	Tel_EA_Control	PO_Type
AP_Control	PO_No	Tel_EA_Control	PO_No
AP_Control	Release_No	Tel_EA_Control	Release_No
AP_Control	Reference_No	Tel_EA_Control	Reference_No
AP_Control	Vendor_No	Tel_EA_Control	Vendor_No
AP_Control	Vendor_ID	Tel_EA_Control	Vendor_ID
AP_Detail	Item_No	Tel_EA_Item, Tel_EA_Account	Item_No

Table Source	Table Source Column Name	Table Destination	Table Destination Column Name
AP_Detail	Item_Type	Tel_EA_Item	Item_Type
AP_Detail	RI_Method	Tel_EA_Item	RI_Method
AP_Detail	Unit_Price	Tel_EA_Item	Unit_Price
AP_Detail	Line_No	Tel_EA_Account	Line_No
AP_Detail	QTY	Tel_EA_Account	Qty_Accrued
AP_Detail	Amount	Tel_EA_Account	Amount_Accrued
AP_Detail	Fiscal_Year	Tel_EA_Account	Fiscal_Year
AP_Detail	Bureau_Code	Tel_EA_Account	Bureau_Code
AP_Detail	Project_Code	Tel_EA_Account	Project_Code
AP_Detail	Task_Code	Tel_EA_Account	Task_Code
AP_Detail	Org1_Code	Tel_EA_Account	Org1_Code
AP_Detail	Org2_Code	Tel_EA_Account	Org2_Code
AP_Detail	Org3_Code	Tel_EA_Account	Org3_Code
AP_Detail	Org4_Code	Tel_EA_Account	Org4_Code
AP_Detail	Org5_Code	Tel_EA_Account	Org5_Code
AP_Detail	Org6_Code	Tel_EA_Account	Org6_Code
AP_Detail	Org7_Code	Tel_EA_Account	Org7_Code
AP_Detail	Object1_Code	Tel_EA_Account	Object1_Code
AP_Detail	Object2_Code	Tel_EA_Account	Object2_Code
AP_Detail	Object3_Code	Tel_EA_Account	Object3_Code
AP_Detail	Object4_Code	Tel_EA_Account	Object4_Code
AP_Detail	User_Define_ACCS	Tel_EA_Account	User_Define_ACCS

Table 5.8 - Data Mapping of the Tel_Monthly_EA_Records Routine

5.3.3.2 Input

The following sections list all tables needed prior to the execution of the Tel_Monthly_EA_Records routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
AP_Control	PM003	Reference	Invoice record details
AP_Detail	PM003	Reference	Invoice record details

Table Name	Screen	Usage	Record Requirement
Parameter	N/A	Store Screen Values	N/A

Table 5.9 - Tel_Monthly_EA_Records Routine Input Tables

5.3.3.3 Processing Logic of the Telecommunications Interface Monthly Estimated Accrual Tables

The following tables describe the field descriptions of the Telecommunications Interface Estimated Accrual temporary tables. The header, control, item and account table structures are identical to the Standard Interface Estimate Accrual Transaction Intermediary tables that are associated with the CAMS/CFS PM050 screen. As a result no file reformatting routines will be executed against the estimated accrual record data batches.

The Telecommunications Interface and the Standard Interface do not utilize any of the columns contained in the CAMS/CFS EA_Descr table. As a result, that table will not be included in the descriptions below.

5.3.3.3.1 Tel EA Header Table Overview

The document table below describes the header table of the Telecommunications Interface Estimated Accrual temporary table associated with the Tel Monthly EA Records Routine.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the estimated accrual data batch. Primary Key of the table.
Interfacing_System	Varchar2(20)	The interfacing system from which the estimated accrual data batch is transferred to the Standard Interface.
Trans_Count	Number(6)	Number of transactions transferred in the estimated accrual data batch.
Office_Code	Varchar2(6)	Payment Office Code for which the estimated accrual data batch is transferred.
User_Name	Varchar2(30)	User name of the individual who last modified the estimated accrual records in a financial system.
Modification_Date	Date	Date the estimated accrual records were last modified in a financial system.

Field Name	Type and Size	Description
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 5.10 - Overview Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Header)

5.3.3.3.2 Tel_EA_Header Table Detailed Review

The document table below describes the processing logic for the columns of the header table (Tel_EA_Header) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Monthly_EA_Records routine.

Column Property	Property Value
Purpose	Primary Key of the table. This field will capture a sequentially generated number that will be applied to all records within the estimated accrual data batch. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Batch_No
Table Name	Tel_EA_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Yes
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	This field captures the user name of the last individual to modify the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	User_Name
Table Name	Tel_EA_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required

Column Property	Property Value
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field captures the date of the last modification to the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Modification_Date
Table Name	Tel_EA_Header
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC(SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Format and Required
Validation Rules	See System Generated

Column Property	Property Value
Purpose	This field will capture the terminal code through which the estimated accrual data batch was last modified. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Device_Name
Table Name	Tel_EA_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See System Generated

Table 5.11 - Detailed Review of the Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Header)

5.3.3.3.3 Tel_EA_Control Table Overview

The document table below describes the control table of the Telecommunications Interface Estimated Accrual temporary table associated with the Tel_Monthly_EA_Records Routine.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the estimated accrual data batch. Foreign Key referencing the header record. Part of the Primary Key of the table.
Trans_No	Number(8)	EA Transaction Number. Part of the primary key of the table.
Item_Count	Number(6)	Total number of item records associated with the control record.
GL_End_Date	Date	The GL_End_Date for the EA control record.
Invoice_Type	Varchar2(6)	Invoice Type of the shell invoice that will be created from the approved EA.
Invoice_No	Varchar2(20)	Invoice Number of the shell invoice that will be created from the approved EA.
Interfacing System	Varchar2(20)	The interfacing system which will interface the shell invoice from the EA.
Document_Source	Varchar2(6)	Document source of the EA.
PO_Type	Varchar2(6)	PO type against which the goods/services received are matched.
PO_No	Number(8)	PO number against which the goods/services received are matched.
Release_No	Number(3)	Release number against which the goods/services received are matched.
Reference_No	Varchar2(20)	Source reference of the EA.
Bureau_Code	Number(2)	Bureau code of the EA.
Vendor_No	Number(10)	Vendor number associated with the EA.
Vendor_ID	Number(6)	Vendor ID associated with the EA.
Approved_Flag	Varchar2(1)	Approval Flag status associated with the EA.
Notes	Varchar2(240)	Additional information about the EA.
User_Name	Varchar2(30)	User name of the individual who last modified the estimated accrual records in a financial system.

Field Name	Type and Size	Description
Modfiication_Date	Date	Date the estimated accrual records were last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 5.12 - Overview Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Control).

5.3.3.3.4 Tel_EA_Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_EA_Control) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Monthly_EA_Records routine.

Column Property	Property Value
Purpose	Foreign Key referencing the header record. Part of the primary key of the table. This field will capture a sequentially generated number that will be applied to all records within the estimated accrual data batch. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Batch_No
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See Required

Column Property	Property Value
Purpose	Part of the primary key of the table. This field will capture a unique sequentially number that will be applied to the control and corresponding detail record(s) for each parent child relationship as established on the invoice record. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Trans_No
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes

Column Property	Property Value
Unique	Yes within control record.
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	This field captures the Bureau_Code of the estimated accrual record as recorded on the invoice record on AP_Control in the Bureau_Code column.
Field Name	Bureau_Code
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Invoice Type of the estimated accrual record as recorded on the invoice record on AP_Control in the Invoice_Type column.
Field Name	Invoice_Type
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Invoice Number of the estimated accrual record as recorded on the invoice record on AP_Control in the Invoice_No column.
Field Name	Invoice_No
Table Name	Tel_EA_Control

Column Property	Property Value
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Document Source of the estimated accrual record as recorded on the invoice record on AP_Control in the Document_Source column.
Field Name	Document_Source
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the PO Type of the PO against which the goods and services are received for the estimated accrual record as recorded on the invoice record on AP_Control in the PO_Type column.
Field Name	PO_Type
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required

Column Property	Property Value
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the PO Number of the PO against which the goods and services are received for the estimated accrual record as recorded on the invoice record on AP_Control in the PO_No column.
Field Name	PO_No
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Release Number of the PO against which the goods and services are received for the estimated accrual record as recorded on the invoice record on AP_Control in the Release_No column.
Field Name	Release_No
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	See Required
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Source Reference information for the estimated accrual record as recorded on the invoice record on AP_Control in the Reference_No column.
Field Name	Reference_No
Table Name	Tel_EA_Control
Displayed	N/A

Column Property	Property Value
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Vendor Number information for the estimated accrual record as recorded on the invoice record on AP_Control in the Vendor_No column.
Field Name	Vendor_No
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Vendor Address Code information for the estimated accrual record as recorded on the invoice record on AP_Control in the Vendor_ID column.
Field Name	Vendor_ID
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the user name of the last individual to modify the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	User_Name
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field captures the date of the last modification to the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Modification_Date
Table Name	Tel_EA_Control
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC(SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Format and Required
Validation Rules	See System Generated

Column Property	Property Value
Purpose	This field will capture the terminal code through which the estimated accrual data batch was last modified. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Device_Name
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No

Column Property	Property Value
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See System Generated

Table 5.13 - Detailed Review of the Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Control)

5.3.3.5 Tel_EA_Item Table Overview

The document table below describes the item table of the Telecommunications Interface Estimated Accrual temporary table associated with the Tel_Monthly_EA_Records Routine.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the estimated accrual data batch. Foreign Key referencing the header record. Part of the Primary Key of the table.
Trans_No	Number(8)	EA Transaction Number. Part of the primary key of the table. Foreign key referencing the control record.
Item_No	Number(3)	EA Item Number.
Line_Item_Count	Number(6)	Number of MDL records for this item.
Accrued_QTY_Amount	Number(14,3)	Amount or quantity received for entire Item record.
Item_Type	Varchar2(6)	Item Type of the EA item record.
RI_Method	Varchar2(1)	RI Method of the EA item record.
Unit_Price	Number(12,4)	Unit Price of the EA item record.
Accrued_QTY_Amount	Number(14,3)	Amount or quantity received.
Commodity_Code	Varchar2(6)	Commodity Code of the EA item record.
Item_Descr	Varchar2(240)	Item Description of the EA item.
User_Name	Varchar2(30)	User name of the individual who last modified the estimated accrual records in a financial system.
Modfiication_Date	Date	Date the estimated accrual records were last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 5.14 - Overview Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Item).

5.3.3.3.6 Tel_EA_Item Table Detailed Review

The document table below describes the processing logic for the columns of the item table (Tel_EA_Item) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Monthly_EA_Records routine.

Column Property	Property Value
Purpose	Part of the primary key of the table. This field will capture a sequentially generated number that will be applied to all records within the estimated accrual data batch. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Batch_No
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See Required

Column Property	Property Value
Purpose	Part of the primary key of the table. Foreign key referencing the control table. This field will capture a unique sequentially number that will be applied to the control and corresponding detail record(s) for each parent child relationship as established on the invoice record. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Trans_No
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	Part of the primary key of the table. This field captures the Item Number information for the estimated accrual record as recorded on the invoice record on AP_Detail in the Item_No column.
Field Name	Item_No
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	Yes within item record.
Default Value	N/A
Processing Logic	
Validation Check	See Required and Unique
Validation Rules	See Required and Unique

Column Property	Property Value
Purpose	This field captures the Item Type information for the estimated accrual record as recorded on the invoice record on AP_Detail in the Item_Type column.
Field Name	Item_Type
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the RI Method of the estimated accrual record as recorded on the invoice record on AP_Detail in the RI_Method column.
Field Name	RI_Method
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Unit Price information for the estimated accrual record.
Field Name	Unit_Price
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. The Unit_Price field on the Tel_EA_Item table will be the summation of the total dollar amount of the invoice records per Reference_No.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the quantity associated with the item record. This field will be defaulted to '1' as all records processed by the Telecommunications Interface will be quantity based.
Field Name	Accrued_Qty_Amount
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes.
Primary Key	No
Unique	No
Default Value	'1' for each unique Reference_No.
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the user name of the last individual to modify the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	User_Name
Table Name	Tel_EA_Item

Column Property	Property Value
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field captures the date of the last modification to the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Modification_Date
Table Name	Tel_EA_Item
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC(SYSDATE).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Format and Required
Validation Rules	See System Generated

Column Property	Property Value
Purpose	This field will capture the terminal code through which the estimated accrual data batch was last modified. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Device_Name
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	See Required
Validation Rules	See System Generated

Table 5.15 - Detailed Review of the Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Item).

5.3.3.3.7 Tel_EA_Account Table Overview

The document table below describes the account table of the Telecommunications Interface Estimated Accrual temporary table associated with the Tel_Monthly_EA_Records Routine.

Field Name	Type and Size	Description
Batch_No	Number	Sequence generated batch number of the estimated accrual data batch. Foreign Key referencing the header record. Part of the Primary Key of the table.
Trans_No	Number(8)	EA Transaction Number. Part of the primary key of the table. Foreign key referencing the control record.
Item_No	Number(3)	EA Item Number.
Line_No	Number(3)	MDL Number of the EA account record.
Qty_Accrued	Number(9,3)	Quantity accrued for the EA account record.
Amount	Number(13,2)	Amount accrued for the EA account record.
Fiscal_Year	Number(4)	Fiscal year of the EA account record.
Bureau_Code	Number(2)	Bureau Code of the EA account record.
Project_Code	Varchar2(7)	Project code of the EA account record.
Task_Code	Varchar2(3)	Task code of the EA account record.
Org1_Code	Varchar2(2)	Level 1 Organization Code of the EA account record.
Org2_Code	Varchar2(2)	Level 2 Organization Code of the EA account record.
Org3_Code	Varchar2(4)	Level 3 Organization Code of the EA account record.
Org4_Code	Number(2)	Level 4 Organization Code of the EA account record.
Org5_Code	Number(2)	Level 5 Organization Code of the EA account record.
Org6_Code	Number(2)	Level 6 Organization Code of the EA account record.

Field Name	Type and Size	Description
Org7_Code	Number(2)	Level 7 Organization Code of the EA account record.
Object1_Code	Number(2)	Level 1 Object Class of the EA account record.
Object2_Code	Number(2)	Level 2 Object Class of the EA account record.
Object3_Code	Number(2)	Level 3 Object Class of the EA account record.
Object4_Code	Number(2)	Level 4 Object Class of the EA account record.
User_Define_ACCS	Number(6)	User defined ACCS of the EA account record.
User_Name	Varchar2(30)	User name of the individual who last modified the estimated accrual records in a financial system.
Modification_Date	Date	Date the estimated accrual records were last modified in a financial system.
Device_Name	Varchar2(30)	Terminal code (ttye, Windows 98).

Table 5.16 - Overview Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Account).

5.3.3.3.8 Tel_EA_Account Table Detailed Review

The document table below describes the processing logic for the columns of the account table (Tel_EA_Account) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Monthly_EA_Records routine.

Column Property	Property Value
Purpose	Part of the primary key of the table. This field will capture a sequentially generated number that will be applied to all records within the estimated accrual data batch. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Batch_No
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See Required

Column Property	Property Value
Purpose	Part of the primary key of the table. Foreign key referencing the control table. This field will capture a unique sequentially number that will be applied to the control and corresponding detail record(s) for each parent child relationship as established on the invoice record. Assigned by Tel_Monthly_EA_Records routine based upon the Standard Interface rules.
Field Name	Trans_No
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	Part of the primary key of the table. Foreign key referencing the item table. This field captures the Item Number information for the estimated accrual record as recorded on the invoice record on AP_Detail in the Item_No column.
Field Name	Item_No
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	Yes
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See Required

Column Property	Property Value
Purpose	This field captures the MDL line number for the estimated accrual record as recorded on the invoice record on AP_Detail in the Line_No column.
Field Name	Line_No
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No

Column Property	Property Value	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field captures the calculated quantity of each MDL line that is associated with the item number for the estimated accrual record as recorded on the invoice record on AP_Detail in the QTY column.
Field Name	Qty_Accrued
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes. See Section 5.3.3 (Determine One-Month Basis Estimated Accrual Records) for details related to the calculation of the Qty_Accrued field.
System Generated	No
Primary Key	No
Unique	No
Default Value	No
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the calculated dollar amount of the MDL line that is associated with the item number for the estimated accrual record as recorded on the invoice record on AP_Detail in the Amount column.
Field Name	Amount
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes. The Amount field on the Tel_EA_Account table will be the summation of the total dollar amount of each unique ACCS string per Reference_No.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Fiscal Year portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Fiscal_Year column.
Field Name	Fiscal_Year
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Bureau Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Bureau_Code column.
Field Name	Bureau_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Project Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Project_Code column.
Field Name	Project_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No

Column Property	Property Value	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field captures the Task Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Task_Code column.
Field Name	Task_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 1 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org1_Code column.
Field Name	Org1_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 2 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org2_Code column.
Field Name	Org2_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 3 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org3_Code column.
Field Name	Org3_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 4 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org4_Code column.
Field Name	Org4_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No

Column Property	Property Value	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field captures the Level 5 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org5_Code column.
Field Name	Org5_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 6 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org6_Code column.
Field Name	Org6_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 7 Organization Code portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Org7_Code column.
Field Name	Org7_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 1 Object Class portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Object1_Code column.
Field Name	Object1_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 2 Object Class portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Object2_Code column.
Field Name	Object2_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No

Column Property	Property Value	
Unique	No	
Default Value	N/A	
Processing Logic		
Validation Check	See Required	
Validation Rules	N/A	

Column Property	Property Value
Purpose	This field captures the Level 3 Object Class portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Object3_Code column.
Field Name	Object3_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Level 4 Object Class portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the Object4_Code column.
Field Name	Object4_Code
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the User Defined portion of the ACCS for the estimated accrual record as recorded on the invoice record on AP_Detail in the User_Define_ACCS column.
Field Name	User_Define_ACCS
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the user name of the last individual to modify the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	User_Name
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value
Purpose	This field captures the date of the last modification to the estimated accrual records. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Modification_Date
Table Name	Tel_EA_Account
Displayed	N/A
Format	dd-mon-rrrr
Required	Yes
System Generated	Yes. Set as TRUNC(SYSDATE).
Primary Key	No
Unique	No

Column Property	Property Value
Default Value	N/A
Processing Logic	
Validation Check	See Format and Required
Validation Rules	See System Generated

Column Property	Property Value
Purpose	This field will capture the terminal code through which the estimated accrual data batch was last modified. Will be assigned during the Tel_Monthly_EA_Records routine.
Field Name	Device_Name
Table Name	Tel_EA_Account
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. Set as Userenv ('Terminal').
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See System Generated

Table 5.17 - Detailed Review of the Processing Logic for the temporary table associated with the Tel_Monthly_EA_Records routine (Tel_EA_Account).

5.3.3.4 Output

This section lists the database tables that will be affected by the actions of the Tel_EA_Monthly_Records routine. The table below lists the database tables where the Tel_EA_Monthly_Records routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_EA_Header	Yes	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)
Tel_EA_Control	Yes	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)

Table Name	Insert	Update	Delete	Comments
Tel_EA_Item	Yes	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)
Tel_EA_Account	Yes	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)

Table 5.18 - Output Tables Affected by the Tel_EA_Monthly_Records Routine

5.3.4 Assign Default Estimated Accrual Values

The Tel_Assign_Default_Monthly_EA_Values routine is designed to accomplish two objectives:

- 1. Populate default data values that will allow an approved telecommunications estimated accrual record to be successfully recorded in the EA_Control, EA_Item, EA_Descr and EA_Account tables associated with the PM050 screen.
- Populate Telecommunications Interface specific data values that will ensure that all telecommunications estimated accrual records and the shell invoices that they create are easily distinguishable within CAMS/CFS.

5.3.4.1 Input

The following sections list all tables needed prior to the execution of the Tel_Assign_Default_Monthly_EA_Values routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_EA_Header	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Control	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Item	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Account	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table

Table 5.19 - Tel_Assign_Default_Monthly_EA_Values Routine Input Tables

5.3.4.2 Processing Logic of the Tel_Assign_Default_Monthly_EA_Values Routine

5.3.4.2.1 Tel EA Header Table Overview

The document table below describes the header table of the estimated accrual records temporary table Tel_EA_Header.

Only the fields that are affected by the Tel_Assign_Default_Monthly_EA_Values routine are documented below.

Field Name	Type and Size	Description
Interfacing_System	Varchar2(20)	The interfacing system from which the estimated accrual data batch is transferred to the
		Standard Interface.
Trans_Count	Number(6)	Number of transactions
		transferred in the estimated
		accrual data batch.
Office_Code	Varchar2(6)	Payment Office Code for which
		the estimated accrual data batch
		is transferred.

Table 5.20 - Overview Processing Logic for the Estimated Accrual Records Temporary Table Header Table (Tel_EA_Header) During the Tel_Assign_Default_EA_Values Routine

5.3.4.2.2 Tel EA Header Table Detailed Review

The document table below describes the processing logic for the columns of the header table (Tel_EA_Header) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Assign_Default_Monthly_EA_Values routine.

Column Property	Property Value
Purpose	This field will capture the interfacing system from which the estimated accrual data batch is transferred to the Standard Interface. This will be populated with the Interface File Type as established on the TEL001 screen by the Tel_Assign_Default_Monthly_EA_Values routine.
Field Name	Interfacing_System
Table Name	Tel_EA_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required

Column Property	Property Value
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will calculate the total number of estimated accrual records processed by the Telecommunications Interface. This will be populated by the Tel_Assign_Default_EA_Values routine.
Field Name	Trans_Count
Table Name	Tel_EA_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. This field will be calculated based on the total number of estimated accrual records captured in the Tel_EA_Control table of the estimated accrual records temporary table. This field will capture the highest value in the Trans_No column on the Tel_EA_Control table within the estimated accrual data batch.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the payment office code from which the estimated accrual data batch is transferred to the Standard Interface. This will be populated by the Tel_Assign_Default_EA_Values routine.
Field Name	Office_Code
Table Name	Tel_EA_Header
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. The Office_Code will be derived from the Payment_Office_Code of the end-user identified by their database user name (DB_User_Name) from the Employee_Control table.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 5.21 - Detailed Review of the Processing Logic for the Estimated Accrual Records Temporary Table Header Table (Tel_EA_Header) During the Tel_Assign_Default_EA_Values Routine

5.3.4.2.3 Tel EA Control Table Overview

The document table below describes the control table of the estimated accrual records temporary table Tel_EA_Control.

Only the fields that are affected by the Tel_Assign_Default_Monthly_EA_Values routine are documented below.

Field Name	Type and Size	Description
Item_Count	Number(6)	Total number of item records associated with the control record.
GL_End_Date	Date	The GL_End_Date for the EA control record. This field will not be populated by the Telecommunications Interface, but will be derived by the Standard Interface.
Interfacing_System	Varchar2(20)	The interfacing system which will interface the shell invoice from the EA.
Reference_No	Varchar2(20)	Source reference number of the EA.
Approved_Flag	Varchar2(1)	Approval Flag status associated with the EA.
Notes	Varchar2(240)	Additional information about the EA. This field will not be populated by the Telecommunications Interface.

Table 5.22 - Overview Processing Logic for the Estimated Accrual Records Temporary Table Control Table (Tel_EA_Control) During the Tel_Assign_Default_EA_Values Routine

5.3.4.2.4 Tel EA Control Table Detailed Review

The document table below describes the processing logic for the columns of the control table (Tel_EA_Control) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Assign_Default_Monthly_EA_Values routine.

Column Property	Property Value
Purpose	This field will capture the total number of item records that are associated with the control record. This will be calculated during the Tel_Assign_Default_EA_Values routine.
Field Name	Item_Count
Table Name	Tel_EA_Control

Column Property	Property Value
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. This field will generate a sequential number that will be increase by '1' for every unique item record, unique Item_No on the Tel_EA_Item table, that has a corresponding Trans_No or the Tel_EA_Control and Tel_EA_Item tables within the same estimated accrual data batch.
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the general ledger end date of the line item. This will NOT be populated by the Tel_Assign_Default_EA_Values routine. This value will be derived by the Standard Interface.
Field Name	GL_End_Date
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the interfacing system which will interface the shell invoice from the EA. This will be populated with the Interface File Type as established on the TEL001 screen by the Tel_Assign_Default_Monthly_EA_Values routine.
Field Name	Interfacing_System
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A

Column Property	Property Value
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Column Property	Property Value
Purpose	This field captures the Source Reference Number of the estimated accrual record as recorded on the invoice record on AP_Control in the Reference_No column during the Tel_Monthly_EA_Records routine. During the Tel_Assign_Default_Monthly_EA_Values routine the Month and Year of the value captured in the global variable for the Generation_Month (GL_End_Date) as entered on the TEL202 screen will be added to the end of the Reference_No field.
	For any data element that is greater than 15 characters, the characters greater than 15 will be overwritten by the Generation Month and Fiscal Year.
Field Name	Reference_No
Table Name	Tel_EA_Control
Displayed	N/A
Format	9999999MONYY
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	See Format

Column Property	Property Value
Purpose	This field will capture the approval flag for the estimated accrual record. This will be populated with 'Y' by the Tel_Assign_Default_EA_Values routine.
Field Name	Approved_Flag
Table Name	Tel_EA_Control
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Table 5.23 - Detailed Review of the Processing Logic for the Estimated Accrual Records Temporary Table Control Table (Tel_EA_Control) During the Tel_Assign_Default_EA_Values Routine

5.3.4.2.5 Tel EA Item Table Overview

The document table below describes the item table of the estimated accrual records temporary table Tel_EA_Item.

Only the fields that are affected by the Tel_Assign_Default_Monthly_EA_Values routine are documented below.

Field Name	Type and Size	Description
Line_Item_Count	Number(6)	Number of MDL records for this item.
Commodity_Code	Varchar2(6)	Commodity Code of the EA item record.
Item_Descr	Varchar2(240)	Item Description of the EA item.

Table 5.24 - Overview Processing Logic for the Estimated Accrual Records Temporary Table Item Table (Tel_EA_Item) During the Tel_Assign_Default_EA_Values Routine

5.3.4.2.6 Tel_EA_Item Table Detailed Review

The document table below describes the processing logic for the columns of the item table (Tel_EA_Item) of the Telecommunications Interface Estimated Accrual temporary table that are affected by the Tel_Assign_Default_Monthly_EA_Values routine.

Column Property	Property Value
Purpose	This field will capture the total number of MDL records that are associated with the item record. This will be calculated during the Tel_Assign_Default_EA_Values routine.
Field Name	Line_Item_Count
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes. This field will generate a sequential number that will be increase by '1' for every unique MDL record, unique Line_No on the Tel_EA_Account table, that has a corresponding Item_No or the Tel_EA_Item and Tel_EA_Account tables within the same estimated accrual transaction number (Trans_No) and data batch (Batch_No).
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the commodity code associated with the item record. This will be populated with 'MISC' by the Tel_Assign_Default_EA_Values routine.
Field Name	Commodity_Code
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value
Purpose	This field will capture the description associated with the item record. This will NOT be populated by the Tel_Assign_Default_EA_Values routine.
Field Name	Item_Descr
Table Name	Tel_EA_Item
Displayed	N/A
Format	N/A
Required	No
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	N/A
Validation Rules	N/A

Table 5.25 - Detailed Review of the Processing Logic for the Estimated Accrual Records Temporary Table Item Table (Tel_EA_Item) During the Tel_Assign_Default_EA_Values Routine

5.3.4.2.7 Tel_EA_Account Table Overview

All columns within the Tel_EA_Account table will be populated by the Tel_Monthly_EA_Records routine.

5.3.4.3 Output

This section lists the database tables that will be affected by the actions of the Tel_Assign_Default_Monthly_EA_Values routine. The table below lists the database tables where the

Tel_Assign_Default_Monthly_EA_Values routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_EA_Header	No	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)
Tel_EA_Control	No	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)
Tel_EA_Item	No	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)
Tel_EA_Account	No	Yes	No	Temporary Transaction Table (estimated accrual records temporary table)

Table 5.28 - Output Tables Affected by the Tel Assign Default Monthly EA Values Routine

5.3.5 Generate Telecom One-Month Basis Estimated Accrual Output Table

The Tel_Monthly_Output_Generate routine is the last routine to be executed by the Telecommunications Interface Estimated Accrual Generation Process against the records within the temporary table. It is designed to copy all data within the estimated accrual records temporary table that has been fully populated into an Oracle Intermediary table.

5.3.5.1 Input

The following sections list all tables needed prior to the execution of the Tel_Monthly_Output_Generate routine. The table below lists the database tables that will be accessed by the Tel_Monthly_Output_Generate routine.

Table Name	Screen	Usage	Record Requirement
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid employee records
Interface_User_Detail	INT001	Reference	Active and valid directory locations
Tel_Maint_Control	TEL001	Base Table	Base table record of the maintenance control table
Tel_Maint_Vendor	TEL001	Base Table	Base table record of the maintenance detail table
Tel_EA_Header	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Control	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table

Table Name	Screen	Usage	Record Requirement
Tel_EA_Item	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Account	N/A	Temporary Transaction Table	Capture estimated accrual records on the estimated accrual records temporary table

Table 5.29 - Tel_Monthly_Output_Generate Routine Input Tables

5.3.5.2 Processing Logic of the Telecom Monthly Estimated Accrual Output Table

All fields within the four tables of the estimated accrual records temporary table will be affected by the Tel_Monthly_Output_Generate routine. Therefore, details of the processing logic will not be documented below.

5.3.5.3 Output

This section lists the database tables that will be affected by the actions of the Tel_Monthly_Output_Generate routine. The table below lists the database tables where the Tel_Monthly_Output_Generate routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
MSI_E00_Header	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications estimated accrual records
MSI_E01_Control	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications estimated accrual records
MSI_E02_Item	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications estimated accrual records
MSI_E03_Account	Yes	Yes	No	Standard Interface Oracle Intermediary Tables to be used to transfer telecommunications estimated accrual records

Table 5.30 - Output Tables Affected by the Tel_Monthly_Output_Generate Routine

5.3.6 Generate Telecom One-Month Basis Estimated Accrual Generation Status Report

After the Tel_Monthly_Output_Generate routine is complete the Telecommunications Interface will call the Tel_Monthly_Generation_Status_Report routine. This routine will generate the One-Month Basis Estimated Accrual Generation Status Report (TEL202)

and write the report to the directory as specified on the INT001 screen. The One-Month Basis Estimated Accrual Generation Status Report will capture the total number of one-month basis estimated accrual records generated and the supporting details of the generated records. The purpose of the report is to provide end-users with a summary of the estimated accrual generation processing results.

At the conclusion of the routine the estimated accrual records temporary table will be deleted.

Depending upon the reporting selection entered on the TEL202 screen this report will be sent directly to a printer or e-mailed to the end-users e-mail account. Reports that are e-mailed will be designed to be imported into Microsoft Excel similar to the logic developed for QR101 reports.

5.3.6.1 Input

The following sections list all tables needed prior to the execution of the Tel_Monthly_Generation_Status_Report routine. The table below lists the database tables that will be accessed by the routine.

Table Name	Screen	Usage	Record Requirement
Tel_EA_Header	N/A	Reference	Record values captured in the header table of the estimated accrual records temporary table
Tel_EA_Control	N/A	Reference	Record values captured in the header block of the estimated accrual records temporary table
Tel_EA_Item	N/A	Reference	Record values captured in the header table of the estimated accrual records temporary table
Tel_EA_Account	N/A	Reference	Record values captured in the header table of the estimated accrual records temporary table
Tel_Maint_Control	TEL001	Reference	Interface File Types from active and valid header records
Tel_Maint_Vendor	TEL001	Reference	Associated vendor information of selected interface file type
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid employee records
Interface_User_Detail	INT001	Reference	Active and valid directory locations
Parameter	N/A	Store Screen Values	N/A

Table 5.31 - Tel_Monthly_Generation_Status_Report Routine Input Tables

5.3.6.2 Report Format

The following is a screen shot of the TEL202 - Telecommunications Interface One-Month Basis Estimated Accrual Generation Status Report. The report will capture the processing results of the most recent onemonth basis estimated accrual generation processing routines.

Subject: Monthly EA Generation Status Report Date: Tue, 17 Sep 2002 16:18:32 -0400 (EDT) From: CAMS-MAIL-CENTER@rdc.noaa.gov CREATION RUN DATE: 09/17/2002 COMMERCE ADMINISTRATIVE MANAGEMENT SYSTEM USER ID: OPS\$NFROBLEG N RUN DATE: 05/1//___ REPORT ID: tel202R NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION INSTANCE: GP2 TEL202b - CAMS/CFS TELECOMMUNICATIONS INTERFACE ONE-MONTH BASIS ESTIMATED ACCRUAL GENERATION STATUS REPORT Criteria: Interface File Type Processed: DOT Item Type Processed: DOTTRA Batch No Processed: 397 Month Estimated Accruals Based On: DEC-2001 Month Estimated Accruals Generated For: SEP-2002 Estimated Accruals Generation Details: Source Reference Number Invoice Type Invoice Number Amount 1AAAG0123SEP02 2002DECDOTTRA TELCOM \$485.00 1AAAG0125SEP02 2002DECDOTTRA \$190.00 ***** END OF THE REPORT *****

Figure 11.0 - Layout of the TEL202 - One-Month Basis Estimated Accrual Generation Status Report

5.3.6.3 TEL202 - One-Month Basis Estimated Accrual Generation Status Report Processing Logic

5.3.6.3.1 TEL202 - One-Month Basis Estimated Accrual Generation Status Report Overview

The document table below provides an overview of the processing logic associated with the columns on the TEL202 - One-Month Basis Estimated Accrual Generation Status Report.

Report Label	Field Name	Type and Size
Creation Run Date	Date	Date
Report ID	Report_ID	Varchar2(10)
Instance	Instance	Varchar2(10)
User ID	User_ID	Varchar2(30)
Page	Page	Varchar2(3)
Interface File Type Processed:	Processed_Interface_File_Type	Varchar2(4)
Interface Item Type Processed:	Processed_Interface_Item_Type	Varchar2(6)
Month Estimated Accruals	Processed_Basis_Month	Varchar2(9)
Based On:		
Month Estimated Accruals	Processed_Generation_Month	Varchar2(9)
Generated For:		
Source Reference Number	Reference_No	Varchar2(20)
Invoice Number	Invoice_No	Varchar2(20)
Invoice type	Invoice_Type	Varchar2(6)
Amount	Amount	Number(12,4)

Table 5.32 - Overview Processing Logic for the TEL202 - One-Month Basis Estimated Accrual Generation Status Report

5.3.6.3.2 TEL202 - One-Month Basis Estimated Accrual Generation Status Report Detailed Review

The document tables below describe in detail the processing logic associated with the columns shown in the TEL202 - One-Month Basis Estimated Accrual Generation Status Report.

Field Property	Property Value
Report Label	Creation Run Date:
Purpose	This field captures the execution date of the report. This field is part of the header record of the report.
Field Name	Date
Table Name	N/A
Format	DD-MON-RRRR, Left Align
Calculation Logic	System generated based upon the system date.

Field Property	Property Value
Report Label	Report ID:
Purpose	This field captures the report ID within CAMS/CFS. This field is part of the header record of the report.
Field Name	Report_ID
Table Name	N/A

Field Property	Property Value
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Instance:
Purpose	This field captures the instance in which the report was generated. This field is part of the header record of the report.
Field Name	Instance
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	User ID:
Purpose	This field captures the Oracle Database User ID of the end-user that initiated the original execution of the processing that generated the report. This field is part of the header record of the report.
Field Name	User_ID
Table Name	N/A
Format	Right Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Page:
Purpose	This field captures the page number of the report. This field is part of the header record of the report.
Field Name	Page
Table Name	N/A
Format	999, Right Align
Calculation Logic	System generated based on the number of pages for the report.

Field Property	Property Value			
Report Label	Interface_File_Type Processed:			
Purpose	This field captures the Select_Interface_File_Type as selected on the TEL202 screen.			
Field Name	Processed_Interface_File_Type			
Table Name	N/A			
Format	Left Align			
Calculation Logic	N/A			

Field Property	Property Value			
Report Label	Interface_Item_Type Processed:			
Purpose	This field captures the Select_Interface_Item_Type as selected on the TEL202 screen.			
Field Name	Processed_Interface_Item_Type			
Table Name	N/A			

Field Property	Property Value
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value			
Report Label	Month Estimated Accruals Based On:			
Purpose	his field captures the Basis_Month as selected on the TEL202 screen.			
Field Name	Processed_Basis_Month			
Table Name	N/A			
Format	Left Align			
Calculation Logic	N/A			

Field Property	Property Value			
Report Label	Month Estimated Accruals Generated For:			
Purpose	his field captures the Generation_Month as selected on the TEL202 screen.			
Field Name	Processed_Generation_Month			
Table Name	N/A			
Format	Left Align			
Calculation Logic	N/A			

Field Property	Property Value			
Report Label	Source Reference Number			
Purpose	This field captures the source reference number of each estimated accrual record as captured in the Reference_No column on the Tel_EA_Control table.			
Field Name	Reference_No			
Table Name	N/A			
Format	Center Align			
Calculation Logic	N/A			

Field Property	Property Value			
Report Label	Invoice No			
Purpose	This field captures the invoice number of each estimated accrual record as captured in the Invoice_No column on the Tel_EA_Control table.			
Field Name	Invoice_No			
Table Name	N/A			
Format	Center Align			
Calculation Logic	N/A			

Field Property	Property Value			
Report Label	Invoice Type			
Purpose	This field captures the invoice type of each estimated accrual record as captured in the Invoice_Type column on the Tel_EA_Control table.			
Field Name	Invoice_Type			
Table Name	N/A			
Format	Center Align			
Calculation Logic	N/A			

Field Property	Property Value
Report Label	Amount
Purpose	This field captures the total dollar figure for each estimated accrual record.
Field Name	Amount
Table Name	N/A
Format	\$999,999,999,999, Center Align
Calculation Logic	Summation of all values captured in the Unit_Price column on the Tel_EA_Item table for every item record that has a corresponding Trans_No on Tel_EA_Control and Tel_EA_Item.

Table 5.33 - Detailed Review of the Processing Logic for the TEL202 - One-Month Basis Estimated Accrual Generation Status Report

5.3.6.4 Output

This section lists the database tables that will be affected by the actions of the Tel_Monthly_Generation_Status_Report routine. The table below lists the database tables where the Tel_Monthly_Generation_Status_Report routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_EA_Header	No	No	Yes	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Control	No	No	Yes	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Item	No	No	Yes	Capture estimated accrual records on the estimated accrual records temporary table
Tel_EA_Account	No	No	Yes	Capture estimated accrual records on the estimated accrual records temporary table

Table 5.34 - Output Tables Affected by the Tel_Monthly_Generation_Status_Report Routine

5.3.7 Requirements Met in the Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page and description of the requirement.

Requirement Number	Page	Description
CP - 3	13	For all estimated accruals, the Telecommunications Interface will post the records in CAMS/CFS on PM050.
CP - 16	18	The Telecommunications Interface will pass accrual information to CAMS/CFS through the impending standard interface.

Table 5.34 - Requirements Met in the Previous Section

5.4 Telecommunications Interface One-Month Basis Estimated Accrual Generation Processing Risks

Refer to the risks identified in Section 4.5.

5.5 Telecommunications Interface One-Month Basis Estimated Accrual Generation Processing Issues

Refer to the issues identified in Section 4.6.

- 6 Telecommunications Interface Yearly Average Estimated Accrual Generation
- 6.1 Purpose of Telecommunications Interface Yearly Average Estimated Accrual Generation

The Telecommunications Interface Yearly Average Estimated Accrual Generation process will allow users to generate a range of months of estimated accrual records based on a range of months of invoice records. The TEL203 (Telecommunications Interface Yearly Average Estimated Accrual Initiation Screen) will be used to execute the yearly average estimated accrual generation process. The end-users will have the ability to select the following criteria for the estimated accrual record generation processing:

- 1. Interface File Type for the generated estimated accrual records
- 2. Item Type for the generated estimated accrual records
- 3. Range of months for which to generate the estimated accrual records (Generation Month Range)
- 4. The earliest month on which to base the estimate accrual records (Basis Month Range)
- 5. The maximum number months, between the latest generation month and the earliest basis month, on which to base the estimate accrual records (Basis Month Range)
- 6.2 Process Flow of Telecommunications Interface Yearly Average Estimated Accrual Generation

The following diagrams illustrate the typical Telecommunications Interface Yearly Average Estimated Accrual Generation processes flow as outlined in the listing below:

- 1. Validate unique parameters
- Determine estimated accrual records
- 3. Assign default estimated accrual values
- 4. Generate the telecommunications interface output table
- Generate the yearly average estimated accrual generation processing report
- 6. Generate the closed or inactive invoice record report

6.2.1 Telecommunications Interface Yearly Average Estimated Accrual High Level Process Flow

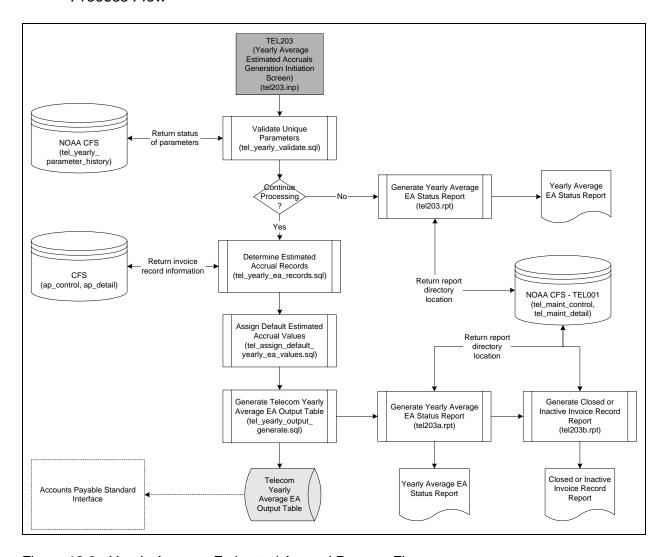


Figure 12.0 - Yearly Average Estimated Accrual Process Flow

- 6.3 Telecommunications Interface Yearly Average Estimated Accrual Generation Sub-Processing Logic
- 6.3.1 TEL203 Yearly Average Estimated Accruals Generation Initiation Screen

6.3.1.1 Form Layout

The TEL203 screen will be developed as a Character screen using Oracle Forms Version 3.0. The TEL203 screen will be used to execute the yearly average estimated accrual generation processing. The execution routine called by this screen, in turn will call all of the routines necessary to complete the processing of the yearly average estimated accrual records into Standard Interface ready estimated accrual records. The screen is comprised of one data block that will be used to enter the requested parameters that shape the processing.

6.3.1.1.1 TEL203 - Telecommunications Interface Yearly Average Estimated Accrual Initiation Screen Layout

tel203 TELECOM INTERFACE YEAR	LY EA TRANSACTION SCREEN	
Enter Parameters for Yearly Average	EA Record Generation:	
Selection:	Email/Print:∎	
Interface File Type:Item Type:	File Format:	
Report to Print:		
Month Range to Generate Accruals:	Through:	
Earliest Month to Base Accruals :	Max No Of Months:	
Printer: Copies:	Print Time:	
ount: *0 <list><repla< td=""></repla<></list>		

Figure 13.0 - TEL203 - Telecommunications Interface Yearly Average Estimated Accrual Initiation Screen Layout

6.3.1.2 Operating Rules

The following sections describe the operating rules applicable to the TEL203 screen. Operating Rules differ from business rules in that they are directly associated with a particular operation as opposed to business rules that are associated more generally with the whole application.

6.3.1.2.1 Create a Record (Initiate Yearly Average Estimated Accrual Process)

- Users are allowed to select the interface file type from a list of values.
- Users are allowed to select the interface item type from a list of values based upon the interface file type and interface file format selected.
- Users are allowed to select the interface file format from a list of values based upon the interface file type selected.
- Users are allowed to select the month range for which to generate estimated accrual records.
- Users are allowed to select the earliest month on which to base the estimated accrual records.
- Users are allowed to select the number of months on which to base the estimated accrual records.
- Users are able to e-mail or print current processing status reports.
- Users are able to e-mail or print previously generated Yearly Average Estimated Accrual Processing Status Report from the initiation screen.

6.3.1.2.2 Modify a Record

Users are not allowed to modify a record on this screen.

6.3.1.2.3 Save a Record

Users are not allowed to save a record on this screen.

6.3.1.2.4 Delete a Record

Users are not allowed to delete a record on this screen.

6.3.1.2.5 Queries

Users are not allowed to query on this screen.

6.3.1.3 Business Rules

The TEL203 screen will be used to generate a range of months of estimated accrual records for a specified line item type based upon a range of months of invoice records.

- Only authorized and established end-users will have access to this screen.
- This process can be executed as many times as needed by an authorized and established end-user.
- Zero and negative estimated accrual amounts will not be generated by the Telecommunications Interface.
- National Weather Service Estimated Accruals will not be generated for NWS long distance phone charges (Object Class 2339).
- This process can only be executed for months after October 2002, as historical data (FY 01) will not exist in CFS for the Invoice Type 'TELCOM'.
- Estimated accrual records can only be generated within the current fiscal year based upon invoice records recorded within the current fiscal year.
- Generation Start Date must be greater than the first month of the fiscal year (October), e.g. November will be the first available month to select from the list of values.
- Generation End Date must be greater than or equal to Generation Start Date.
- Generation End Date can not be greater than the last month of the fiscal year (September).
- Basis Month must be less than Generation Start Date.
- Basis Month must be less than last month of the fiscal year (September), e.g. August will be last available month to select from the list of values.
- Basis Range can be greater than the total number of months between the Generation Start Date and Basis Month.

6.3.1.4 Input

The following sections list all tables needed prior to executing the yearly average estimated accrual generation process from the TEL203 screen. The table below lists the database tables where the screen is obtaining the information.

Table Name	Screen	Usage	Record Requirement
Tel_Maint_Control	TEL001	LOV	Item Types from active and valid header records
Interface_Control	INT001	Reference	Active and valid item type
Interface_Dir_Detail	INT001	Reference	Active and valid employee records
Interface_User_Detail	INT001	Reference	Active and valid directory locations

Table Name	Screen	Usage	Record Requirement
AP_Control	PM003	Reference	Invoice record details
AP_Detail	PM003	Reference	Invoice record details
Tel_Yearly_Validate_Paramet er	TEL203	Reference	History of TEL203 execution parameters
Parameter	N/A	Store Screen Values	N/A

Table 6.0 - TEL203 (Telecommunications Interface Yearly Average Estimated Accrual Initiation Screen) Input Tables

6.3.1.5 Processing Logic for the TEL203 Screen

6.3.1.5.1 TEL203 Screen Processing Logic Overview

The following document table lists all screen labels and applicable field names (non-base table) within the TEL203 screen. All values will be captured in the parameter table.

Screen Label	Field Name	Type and Size
Selection	Selection	Varchar2(1)
Email/Print	Report_Form	Varchar2(1)
Select Interface File Type to Process	Select_Interface_File_Type	Varchar2(4)
Select Interface Item Type to Process	Select_Interface_Item_Type	Varchar2(6)
Select Interface File Format to Process	Select_Interface_File_Format	Varchar2(13)
Select Report to Print	Select_Report_To_Process	Varchar2(16)
Select Month Range FOR Which to Generate Estimated Accruals	Generation_Month_Start	Varchar2(9)
Through	Generation_Month_End	Varchar2(9)
Select the Earliest Month ON Which to Base Estimated Accruals	Basis_Month	Varchar2(9)
Select the Maximum Number of Months on Which to Base Estimated Accrual Generation (1-11)	Basis_Range	Number(2)
Printer	Printer	Varchar2(15)
Copies	Copies	Number (3)
Print Time	Print_Time	Varchar2(20)

Table 6.1 - Overview of the Processing Logic of the TEL203 Screen

6.3.1.5.2 TEL203 Screen Processing Logic Detailed Review

The following sections describe the field descriptions and the processing logic for each field associated with the TEL203 screen.

Field Property	Property Value
Screen Label	Selection
Purpose	This field captures processing selection criterion of the end-user. The user will be able to select whether they wish to process a batch of estimated accrual records or print the processing status report from a previous execution of the Telecommunications Interface yearly average estimated accrual initiation process.
Field Name	Selection
Table Name	N/A
Displayed	Yes
Format	Only display number of selection criterion.
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
List Box	'1 - Process Estimated Accrual Data Batch' '2 - Generate Report from Previous Execution'
Processing Logic	
Validation Check	See List Box
Validation Rules	See List Box, Format and Required
Tab Position	1

Field Property	Property Value
Screen Label	Email/Print
Purpose	This field captures the output report format selection criterion of the end-user. The user will be able to select whether they wish to print the report directly from the screen at the conclusion of processing or e-mail the report to their e-mail account.
Field Name	Report_Form
Table Name	N/A
Displayed	Yes
Format	Only 'E' or 'P' allowed.
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	'E'
Screen Display Format	
List Box	'E - E-mail report to account' 'P - Send report to printer'

Field Property	Property Value
Processing Logic	
Validation Check	See List Box
Validation Rules	See List Box, Format and Required
Tab Position	2

Field Property	Property Value
Screen Label	Select Interface File Type to Process
Purpose	This field captures all active interface file types that have been established for the end-user on the INT001 and TEL001 screens. The end user must select the interface file type to process.
Field Name	Select_Interface_File_Type
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for Interface_Type with an Active_Status = 'Y' from the Interface_Control table on screen INT001 where the Emp_No of the end-user has been established in the Emp_No field with an Active_Status ' 'Y' from the Interface_User_Detail table on screen INT001 and File_ID = 'INPUT' from the Interface_Dir_Detail table on the screen INT001. Union Return all values for Interface_File_Type with an Active_Status = 'Y' from the Tel Maint Control table on screen TEL001.
Dunanania (L	rei_iviaint_Control table on screen TELOUT.
Processing Logic	0. 101/
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	3

Field Property	Property Value
Screen Label	Select Interface Item Type to Process
Purpose	This field captures all active item types as entered on TEL001 for the selected interface file type. The end user must select the item type to process.
Field Name	Select_Interface_Item_Type
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No

Field Property	Property Value
Default Value	N/A
Screen Display Format	
LOV	Return all values for Item_Type from the Tel_Maint_Control table where the global variable for the Select_Interfce_File_Type on the TEL203 screen is equal to the Interface_File_Type respectively and the Active_Status is equal to 'Y' as entered on the Tel_Maint_Control table on screen TEL001. If only one record is returned in the LOV populate the Select_Interface_Item_Type with that value. If more than one record is returned in the LOV, require the user to select a value.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	4

Field Property	Property Value
Screen Label	Select Interface File Format to Process
Purpose	This field captures all active interface file formats entered on TEL001 for the selected interface file type and interface file format. The end user must select the interface file format to process.
Field Name	Select_Interface_File_Format
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Value must be selected prior to execution of the process.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	Return all values for File_Format from the Tel_Maint_Control table where the global variable for the Select_Interfce_File_Type and Select_Interface_Item_Type on the TEL203 screen is equal to the Interface_File_Type and Item_Type respectively and the Active_Status is equal to 'Y' as entered on the Tel_Maint_Control table on screen TEL001. If only one record is returned in the LOV populate the Select_Interface_File_Format with that value. If more than one record is returned in the LOV, require the user to select a value.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	5

Field Property	Property Value
Screen Label	Select Report to Print
Purpose	If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field this field will not be available.
	If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field captures all report names in the determined directory based upon the selected interface file type, selected interface file format and selected interface item type setup on TEL001 and INT001. The end user must select the report to print.
Field Name	Select_Report_To_Process
Table Name	N/A
Displayed	Yes
Format	N/A
Required	 No, if the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field. Yes, If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Screen Display Format	
LOV	If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field return all report file names as established in Directory_Location for the File ID = 'Report' from the Interface Dir Detail table on the screen INT001 where the Interface_File_Type, File_Format and Item_Type from the Interface Control table on screen INT001 is equal to the selected interface file type, selected interface file format and selected interface item type respectively.
	When executed report files will be sent to the Unix printer as established for the end-user User ID.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	6, if option 2 is selected.

Field Property	Property Value
Screen Label	Select Month Range FOR Which to Generate Estimated Accruals
Purpose	This field captures the beginning month and the current fiscal year for which a range of estimated accrual records will be generated. The end user must select the generation month start.
Field Name	Generation_Month_Start
Table Name	N/A
Displayed	Yes
Format	Mon-YYYY

Field Property	Property Value	
Required	 If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field a value must be selected prior to execution of the process. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be available. 	
System Generated	No	
Primary Key	No	
Unique	No	
Default Value	Null	
Screen Display Format		
List Box	The List Box displays a list of values of all available months plus the current fiscal year. Available months are November through September of the current fiscal year.	
Processing Logic		
Validation Check	 See List Box. Value selected must be within the current fiscal year based upon the system date. 	
Validation Rules	See List Box, Required and Format.	
Tab Position	6, if Select_Report_To_Process is not accessible.	

Field Property	Property Value
Screen Label	Through
Purpose	This field captures the ending month and the current fiscal year for which a range of estimated accrual records will be generated. The end user must select the generation month end.
Field Name	Generation_Month_End
Table Name	N/A
Displayed	Yes
Format	Mon-YYYY
Required	 If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field a value must be selected prior to execution of the process. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be available.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
List Box	The List Box displays a list of values of all available months plus the current fiscal year. Available months are November through September of the current fiscal year. Generation_Month_End must be greater than the Generation_Month_Start.
Processing Logic	
Validation Check	 See List Box Value selected must be within the current fiscal year based upon the system date.

Field Property	Property Value
Validation Rules	See List Box, Required and Format.
Tab Position	7, if Select_Report_To_Process is not accessible.

Field Property	Property Value
Screen Label	Select the Earliest First Month ON Which to Base Estimated Accruals
Purpose	This field captures the beginning month and the current fiscal year for which a range of estimated accrual records will be based. The end user must select the basis month. The Telecommunications Interface will not query for invoice records to assist in the estimated accrual generation processing prior to the month specified in this field. The end user must select the basis month.
Field Name	Basis_Month
Table Name	N/A
Displayed	Yes
Format	Mon-YYYY
Required	 If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field a value must be selected prior to execution of the process. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be available.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
List Box	The List Box displays a list of values of all available months plus the current fiscal year. Available months are October through August of the current fiscal year. Basis_Month must be less than the Generation_Month_Start.
	Basis_Month must be less than or equal to the GL_End_Date based upon the system date.
Processing Logic	
Validation Check	 See List Box Value selected must be within the current fiscal year based upon the system date.
Validation Rules	See List Box, Required and Format.
Tab Position	8, if Select_Report_To_Process is not accessible.

Field Property	Property Value
Screen Label	Select the Maximum Number of Months ON Which to Base Estimated Accruals (1-11)

Field Property	Property Value
Purpose	This field captures that maximum number of invoice records on which the end- user wants the estimated accrual records to be based.
	This field will allow the end-user to select the maximum number of months between the Basis_Month and the Generation_Month_End, up to '11'.
	Starting with the Generation Month_End and querying through the Basis_Month the Telecommunications Interface will attempt to identify a maximum of 'n' invoice records, where 'n' is less than or equal to the Generation_Month_End and greater or equal to the Basis_Month.
Field Name	Basis_Range
Table Name	N/A
Displayed	Yes
Format	N/A
Required	 If the end-user selects option 1 (Process Estimated Accrual Data Batch) in the Selection field a value must be selected prior to execution of the process. If the end-user selects option 2 (Generation Previous Execution Report) in the Selection field this field will not be available.
System Generated	No
Primary Key	No
Unique	No
Default Value	Null
Screen Display Format	
LOV	The Poplist displays a list of values range 1 (one) to 11 (eleven) based on calculation.
	Cannot be greater than the total number of GL Periods between the Basis_Month and Generation_Month_End.
Processing Logic	
Validation Check	See LOV
Validation Rules	See LOV and Required
Tab Position	9, if Select_Report_To_Process is not accessible.

Field Property	Property Value
Screen Label	Printer
Purpose	This field captures the default UNIX printer as established for the end-user.
Field Name	Printer
Table Name	N/A
Displayed	Yes
Format	N/A
Required	Yes
System Generated	Yes
Primary Key	No
Unique	No
Default Value	Default UNIX printer of the end-user
Screen Display Format	
LOV	All available UNIX printers

Field Property	Property Value
Processing Logic	
Validation Check	N/A
Validation Rules	This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.
Tab Position	7, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.

Field Property	Property Value
Screen Label	Copies
Purpose	This field captures the number of copies that will be sent to the selected printer.
Field Name	Copies
Table Name	N/A
Displayed	Yes
Format	999
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	1
Screen Display Format	
Text Box	Number of copies to be printed.
Processing Logic	
Validation Check	N/A
Validation Rules	 Cannot be greater than 999. This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.
Tab Position	8, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.

Field Property	Property Value
Screen Label	Print Time
Purpose	This field captures when the time of the current day when the print job will be executed.
Field Name	Print_Time
Table Name	N/A
Displayed	Yes
Format	DD-MON-YYYY
Required	Yes
System Generated	No
Primary Key	No
Unique	No
Default Value	System Date
Screen Display Format	
Text Box	Desired time of the current day when the print job will be executed
Processing Logic	

Field Property	Property Value
Validation Check	Cannot be prior to the system time
Validation Rules	 Must use military time (e.g 2:00 PM = 14:00) This field is only available if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.
Tab Position	9, if the end-user select option '2' in the Selection field and option 'P' from the Report_Form field.

Table 6.2 - Detailed Review of the Processing Logic of the TEL203 Screen

6.3.1.6 Security

The existing CAMS/CFS menu security and the CAMS/CFS database roles will be used for implementing the security on the new screens and the objects developed, respectively.

6.3.1.7 Error Handling Messages

The following table lists the main error and warning messages applicable to the TEL203 screen.

Message No.	Туре	Text	
1	Error	Item Type must be entered.	
2	Error	Desired month for the generation of estimated accruals must be entered.	
3	Error	Desired month on which to base the generation of estimated accruals must be entered.	
4	Error	A beginning month must be entered prior to the end month for the month range fields.	
5	Error	A beginning and end month range must be entered prior to the basis month.	
6	Error	A beginning and end month range must be entered prior to the basis month range.	
7	Error	A basis month must be entered prior to the basis month range.	
8	Error	Current report process is still running. Please try again later.	

Table 6.3 - Main Error and Warning Messages for the TEL203 Screen

6.3.1.8 Output

All data entered or selected on the TEL203 screen will be used as global variables through out the yearly average estimated accrual generation processing. At the conclusion of processing the global variables will be captured in the Parameter table.

6.3.1.9 Reports

The TEL203 process will generate two reports during the processing of the yearly average estimated accrual records. The Yearly Average Estimated Accrual Generation Status Report is discussed in detail in Section 6.3.6 (Generate Telecom Yearly Average Estimated Accrual Generation Status Report). The Closed or Inactive Invoice Record Report is discussed in detail in Section 6.3.7 (Generate Closed or Inactive Invoice Record Report). Both reports will be generated, e-mailed or printed and placed in the output directories as established on INT001 for the applicable Interface File Type at the conclusion of processing.

If the end-user elects to print a previously generated Yearly Average Estimated Accrual Processing Status Report or Closed or Inactive Invoice Record Report the reports will be sent to the Unix printer of the end-user based upon the User ID.

6.3.1.10 Requirements Met in the Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page number and description of the requirement.

Requirement Number	Page	Description
CP - 4	13	The Telecommunications Interface will generate estimated accruals for NWSAPP system files. The calculation includes detecting months where payments are missing and generating estimated accruals for those months based on past charges.

Table 6.4 - Requirements Met in the Previous Section

6.3.2 Validate Yearly Average Estimated Accrual Generation Unique Parameters

The Tel_Yearly_Validate routine is designed to inform the end-user if the parameters entered on the TEL203 screen have or have not been entered during a previous execution of the yearly average estimated accrual generation process. The validation routine will utilize a parameter history table that is associated with the TEL203 screen. The table will record the Interface File Type, Interface File Format, Interface Item Type, the beginning and ending general ledger end dates for the generation month range, User ID and Process Initiation Date (including time stamp) for which estimated accruals were generated as entered on the TEL203 screen.

When the process is executed the underlying PL/SQL will access the parameter history table to determine if the combination of Interface File Type, Interface File Format, Interface Item Type and any months within the generation month range entered on the TEL203 screen have already been

used during a previous execution of the yearly average estimated accrual generation processing. If the criteria are unique an informational message will appear indicating that the criteria entered are unique and will confirm the end-users intent to continue processing.

If the criteria are not unique the end-user will receive an informational warning. The warning will indicate that the criteria entered have already been used during a previous execution of the yearly basis estimated accrual generation processing. The message will also include the date of the processing and the user name of the individual who executed the processing. The end-user will be prompted to confirm if they wish to continue processing. If multiple rows are encountered within the parameter table, for the same Interface File Type, Interface File Format, Interface Item Type and GL End Date combination, the error message will be generated based upon the most recent Modification_Date (including time stamp).

If the end-user chooses to discontinue processing no yearly average estimated accrual records will be generated. The process will call the routine to generate the Yearly Average Estimated Accrual Generation Status Report. The report will indicate that no estimated accrual records were generated. Details of the report and the generation process are described in detail in Section 6.3.6 (Generate Telecom Yearly Average Estimated Accrual Generation Status Report).

6.3.2.1 Input

The following sections list all tables needed prior to the execution of the Tel_Yearly_Validate routine. The table below lists the database tables that will be accessed by the validation routine.

Table Name	Screen	Usage	Record Requirement
Tel_Yearly_Validate_Paramet er	TEL203	Reference	History of TEL203 execution parameters
Parameter	N/A	Store Screen Values	N/A

Table 6.5 - Tel_Yearly_Validate Routine Input Tables

6.3.2.2 Processing Logic of the Yearly Average Estimated Accrual Generation Validation Table

6.3.2.2.1 Tel_Yearly_Validate_Parameter Table Overview

The document table below describes the parameter table associated with the Tel_Yearly_Validate routine.

Field Name	Type and Size	Description
Interface_File_Type	Varchar2(4)	Interface File Type of previously
		executed process.
Interface_File_Format	Varchar2(13)	Interface File Format of
		previously executed process.
Interface_Item_Type	Varchar2(6)	Interface Item Type of previously
		executed process.
Generation_Month_Start	Date	Beginning GL_End_Date of
		previously executed process.
Generation_Month_End	Date	Ending GL_End_Date of
		previously executed process.
User_Name	Varchar2(30)	User name of the individual who
		last modified the invoice record
		in a financial system.
Modification_Date	Date	Date the invoice record was last
		modified in a financial system.

Table 6.6 - Overview Processing Logic for the parameter table associated with the Tel_Yearly_Validate Routine (Tel_Yearly_Validate_Parameter)

6.3.2.2.2 Tel_Yearly_Validate_Parameter Table Detailed Review

The document table below describes the processing logic for the parameter table associated with the Tel_Yearly_Validate routine.

Column Property	Property Value		
Purpose	The record that includes the values captured in this column will be checked against the Interface_File_Type value captured in the global variable for the Select_Interface_File_Type field on the TEL203 screen. Upon confirmation of the end-users intent to continue processing this field will capture the Interface_File_Type as entered on the TEL203 screen in a new record.		
Field Name	Interface_File_Type		
Table Name	Tel_Yearly_Validate_Parameter		
Displayed	No		
Format	N/A		
Required	Yes upon confirmation of the end-users intent to continue processing.		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	N/A		
Processing Logic			
Validation Check	See Required		
Validation Rules	N/A		

Column Property	Property Value			
Purpose	The record that includes the values captured in this column will be checked against the Interface_File_Format value captured in the global variable for the Select_Interface_File_Format field on the TEL203 screen. Upon confirmation of the end-users intent to continue processing this field will capture the Interface_File_Format as entered on the TEL203 screen in a new record.			
Field Name	Interface_File_Format			
Table Name	Tel_Yearly_Validate_Parameter			
Displayed	No			
Format	N/A			
Required	Yes upon confirmation of the end-users intent to continue processing.			
System Generated	No			
Primary Key	No			
Unique	No			
Default Value	N/A			
Processing Logic				
Validation Check	See Required			
Validation Rules	N/A			

Column Property	Property Value		
Purpose	The record that includes the values captured in this column will be checked against the Interface_Item_Type value captured in the global variable for the Select_Interface_Item_Type field on the TEL203 screen. Upon confirmation of the end-users intent to continue processing this field will capture the Interface_Item_Type as entered on the TEL203 screen in a new record.		
Field Name	Interface_Item_Type		
Table Name	Tel_Yearly_Validate_Parameter		
Displayed	No		
Format	N/A		
Required	Yes upon confirmation of the end-users intent to continue processing.		
System Generated	No		
Primary Key	No		
Unique	No		
Default Value	N/A		
Processing Logic			
Validation Check	See Required		
Validation Rules	N/A		

Column Property	Property Value		
Purpose	Each month with the generation month range as recorded on TEL203 will be verified against the month ranges that are between the Generation_Month_Start and Generation_Month_End on the Tel_Yearly_Validate_Parameter table. Upon confirmation of the end-users intent to continue processing this field will capture the Generation_Month_Start as entered on the TEL203 screen in a new record.		
Field Name	Generation_Month_Start		
Table Name	Tel_Yearly_Validate_Parameter		
Displayed	No		

Column Property	Property Value
Format	N/A
Required	Yes upon confirmation of the end-users intent to continue processing.
System Generated	No
Primary Key	No
Unique	No
Default Value	N/A
Processing Logic	
Validation Check	See Required
Validation Rules	N/A

Column Property	Property Value			
Purpose	Each month with the generation month range as recorded on TEL203 will be verified against the month ranges that are between the Generation_Month_Start and Generation_Month_End on the Tel_Yearly_Validate_Parameter table. Upon confirmation of the end-users intent to continue processing this field will capture the Generation_Month_End as entered on the TEL203 screen in a new record.			
Field Name	Generation_Month_End			
Table Name	Tel_Yearly_Validate_Parameter			
Displayed	No			
Format	N/A			
Required	Yes upon confirmation of the end-users intent to continue processing.			
System Generated	No			
Primary Key	No			
Unique	No			
Default Value	N/A			
Processing Logic				
Validation Check	See Required			
Validation Rules	N/A			

Column Property	Property Value			
Purpose	This field will capture the user name of the last individual to run the Telecommunications Interface. Upon confirmation of the end-users intent to continue processing this field will capture the Oracle Database User ID of the end-user in a new record. No validations will be made against this column.			
Field Name	User_Name			
Table Name	Tel_Yearly_Validate_Parameter			
Displayed	N/A			
Format	N/A			
Required	Yes			
System Generated	Yes			
Primary Key	No			
Unique	No			
Default Value	N/A			
Processing Logic				
Validation Check	See Required			

Column Property	Property Value
Validation Rules	Set as Oracle Database User ID

Column Property	Property Value		
Purpose	This field will capture the date the Telecommunications Interface was run. Upon confirmation of the end-users intent to continue processing this field will capture the processing date of the vendor invoice generation process in a new record. No validations will be made against this column.		
Field Name	Modification_Date		
Table Name	Tel_Yearly_Validate_Parameter		
Displayed	N/A		
Format	dd-mon-rrrr		
Required	Yes		
System Generated	Yes. Set as TRUNC (SYSDATE).		
Primary Key	No		
Unique	No		
Default Value	N/A		
Processing Logic			
Validation Check	See Required		
Validation Rules	N/A		

Table 6.7 - Detailed Review of the Processing Logic for the parameter table associated with the Tel_Yearly_Validate Routine (Tel_Yearly_Validate_Parameter).

6.3.2.3 Output

This sections list the database tables that will be affected by the actions of the Tel_Yearly_Validate routine. The table below lists the database tables where the Tel_Yearly_Validate routine is creating, updating or deleting data.

Table Name	Insert	Update	Delete	Comments
Tel_Yearly_Validate_ Parameter	Yes	No	No	Parameter table for the yearly average estimated accrual generation process

Table 6.8 - Output Tables Affected by the Tel_Yearly_Validate Routine

6.3.3 Determine Yearly Average Estimated Accruals Records

The Tel_Yearly_EA_Records routine is designed to generate multiple months of estimated accruals records for a specified interface file type and interface item type for all months within the generation month range where an invoice record has not been recorded in CAMS/CFS.

The Tel_Yearly_EA_Records routine consists of several

The Tel_Yearly_EA_Records routine will initially execute a query against the CAMS/CFS AP_Control and AP_Detail tables using the following criteria:

Invoice_Type = Derived from the Invoice_Type field on the TEL001 screen

Item_Type = Equal to the global variable captured on the TEL203 screen as Select_Interface_Item_Type

Invoice_Status = 'PAID', 'OPEN' or 'INTRAN'

Approved_Flag = 'Y'

Document_Source = 'NONE'

Invoice_Date = All dates within the basis month range

Amount = Greater than zero

RI_Method = 'Q'

APC_Flag = NULL

The Invoice_Type will be derived from the Invoice_Type field on the TEL001 screen from the maintenance record where the Interface_File_Type. Item_Type and File_Format is equal to the global variable captured on the TEL203 screen as Select_Interface_File_Type, Select_Interface_Item_Type and Select_Interface_File_Format respectively.

The results of the query will be captured in temporary tables that are identical to the EA_Control, EA_Item and EA_Account tables.

If the Interfacing_System is equal to the Interface_File_Type for 'NWS' the routine will not return those records that have '23' in the Object1_Code and '39' in the Object2_Code fields . *This will ensure that estimated accruals are only generated for local phone charges.* For all situations where the Object1_Code and Object2_Code is equal to '2339' the Interfacing_File_Type is equal to 'NWS' no estimated accrual records will be generated.

In addition if the Interfacing System is equal to the Interface_File_Type for 'NWS' the routine will search the first two fields within the Item_Descr column on the AP_Detail table to identify the NWSAPP_Transaction_Code that was applied to the invoice record during the Telecommunications Interface invoice generation process. If the first two characters in the Item_Descr field contain a '20' or '23' the invoice records will not be loaded into the estimated accrual processing tables. The Reference_No, Invoice_No, Invoice_Date and Invoice_Amount from the AP_Control table for the invoice records will be captured within a second temporary table associated with the TEL203b - Closed or Inactive Invoice Records Report. Refer to Section 6.3.8 (Generate Closed or Inactive Invoice Record Report) for more details on the report process.

If the Interfacing System is equal to an Interface_File_Type other than that for 'NWS' the records will be loaded into the temporary Telecommunications Interface EA tables for processing.

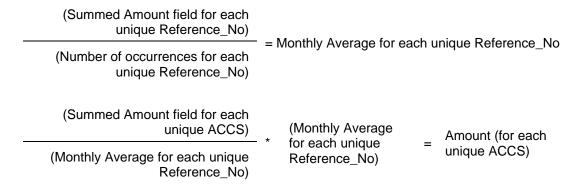
If no invoice records are detected within the basis month range for the criteria entered in the query a popup screen will appear informing the user that 'No invoice records are present within the basis month range selected.'. Processing will stop and the user will be returned to the TEL203 screen to enter different criteria for processing.

If the query has been successfully executed the Tel_Yearly_EA_Records routine will attempt to identify identical invoice records within the temporary tables. Identical records will signify situations where multiple bills were processed for the same Reference_No within the same month. If multiple records with the same Reference_No are identified the Telecommunications Interface will attempt to combine the records into one Estimated Accrual record with one or many line items. Each month will signify one occurrence of the Reference_No. This process will be repeated for each Reference_No for each month, starting with the month immediately preceding the generation start month, within the basis month range up to the maximum number of months as selected for the basis range. The routine will use the first duplicate record's Tel_EA_Control and Tel_EA_Item values as the base for the additional records.

The Unit_Price field on the Tel_EA_Item table will be the summation of the total dollar amount of the invoice records per Reference_No for all months within the basis month range divided by the number of occurrences of that Reference_No. The Accrued_Qty_Amount field on the Tel_EA_Item table will be defaulted to '1' for each unique Reference_No.

Then within the duplicate control and item combinations it will identify the ACCS string including Fiscal_Year and Bureau_Code and group those record's Tel_EA_Account values based upon the ACCS string.

The Amount field within each unique ACCS string on the Tel_EA_Account table will be calculated as follows:



The Qty_Accrued field within each unique ACCS string on the Tel EA Account table will be calculated as follows:

Amount (for each unique ACCS) (Monthly Average for each unique accs) (Monthly Average for each unique accs)

Reference No)

The result of the Qty_Accrued calculation will be subtracted from the Accrued_Qty_Amount field on the Tel_EA_Item table, which will always be equal to '1'. Any difference will be added to the largest Qty_Accrued value for the item number that is being processed. If multiple records are equal to the same 'largest Qty_Accrued value' within the ACCS string the difference will be added to the first occurrence. This step is necessary to ensure that the total value of the Qty_Accrued field for each line item on the Tel_EA_Account table and the Accrued_Qty_Amount field on the Tel_EA_Item table are always equal.

It is important to note that the Amount field, as generated by the Telecommunications Interface, will not be used by the Standard Interface for processing. The Standard Interface will multiply the Qty_Accrued for each ACCS string by the Unit_Price to determine the Amount of the ACCS string.

As a final step the routine will re-calculate the Unit_Price field on the Tel_EA_Item table to ensure that it's value is equal to the summation of the Amount fields on the Tel_EA_Account table. The following calculation will be performed:

```
Qty_Accrued (for * Unit_Price (for each unique ACCS) * Unit_Price (for the line item) = Calculated Amount (for each unique ACCS)
```

The Unit_Price field for the line item on the Tel_EA_Item table will be replaced with the summation of the calculated Amount fields.

The results of the query and routines will be maintained in the Tel_EA_Header, Tel_EA_Control and Tel_EA_Item and Tel_EA_Account tables of the Telecommunications Interface Estimated Accrual temporary tables. The table data mapping is discussed below.

As a result of this initial query and routine, one EA record will be generated for each unique reference number for each month within the generation month range. This EA record will be copied and applied to each month within the generation month range where an invoice for the unique reference number does not exist.

The table data mapping between the temporary invoice tables and the Telecommunications Interface Estimated Accrual temporary tables is discussed in Section 5.3.3.1 (CAMS/CFS Invoice Table to Telecommunications Interface Estimated Accrual Tables Data Mapping).

Complete descriptions of the Telecommunications Interface Estimated Accrual temporary tables is described in Section 5.3.3.3 (Processing Logic of the Telecommunications Interface Yearly Average Estimated Accrual Tables).

The Tel_Yearly_EA_Records routine will then execute a second query against the CAMS/CFS AP_Control and AP_Detail tables using the following criteria:

Invoice_Type = Derived from the Invoice_Type field on the TEL001 screen
Item_Type = Equal to the global variable captured on the TEL203

screen as Select_Interface_Item_Type

Invoice_Status = 'PAID', 'OPEN' or 'INTRAN'

Approved_Flag = 'Y'

Document Source = NONE

Invoice_Date = All dates within the generation month range

The Invoice_Type will be derived from the Invoice_Type field on the TEL001 screen from the maintenance record where the Interface_File_Type. Item_Type and File_Format is equal to the global variable captured on the TEL203 screen as Select_Interface_File_Type, Select_Interface_Item_Type and Select_Interface_File_Format respectively.

The query will determine, for each Reference_No captured in the Estimated Accrual Generation Temporary Table, which months within the generation month range that do not have an invoice record recorded. The routine will generate an exact copy the original estimated accrual record for each month that does not have invoice record. It will insert the month and the fiscal year of the month where the record is to be applied. The routine will be repeated for all Reference_No's within the estimated accrual generation temporary table.

6.3.3.1 Input

Refer to Section 5.3.3.2 (Input) for the Tel_Yearly_EA_Records routine input tables descriptions.

6.3.3.2 Processing Logic of the Telecommunications Interface Yearly Average Accrual Tables

Refer to Section 5.3.3.3 (Processing Logic of the Telecommunications Interface Monthly Estimated Accrual Tables) and all sub-sections related to the Tel_Monthly_EA_Records routine for descriptions of the Telecommunications Interface Estimated Accrual temporary tables. The table structures described in Section 5.3.3.3 are directly applicable to the Telecommunications Interface Yearly Estimated Accrual Tables and the Tel_Yearly_EA_Records routine.

For details pertaining the correct month and fiscal year format to be applied to the Reference_No field please refer to Reference_No table in Section 5.3.3.3.4 (Tel EA Control Detailed Review).

It is important to note that the Tel_Yearly_EA_Records routine will not determine the month and year to be applied to the Reference_No field using the same logic as the Tel_Monthly_EA_Records routine. The month and the fiscal year of the month where the record is to be applied will determine the month and year values to be added to the Reference_No field.

6.3.3.3 Output

Refer to Section 5.3.3.3 (Output) for the Tel_Yearly_EA_Records routine output tables descriptions.

6.3.4 Assign Default Estimated Accrual Values

The Tel_Assign_Default_Yearly_EA_Values routine is identical to the Tel_Assign_Default_Monthly_EA_Values routine as described in Section 5.3.4 (Assign Default Estimated Accrual Values) in all respects outside of one difference. Refer the Section 5.3.4 and all of its sub-sections for descriptions of the routine and the tables that are affected.

The two routines differ as follows:

The Tel_Assign_Default_Monthly_EA_Values routine populates the Reference_No field with the month and year of the GL_End_Date captured in the global variable for the Generation_Month from the TEL202 screen.

The Tel_Assign_Default_Yearly_EA_Values routine will not populate the Reference_No field with any additional data. The Tel_Yearly_EA_Records routine will populate the Reference_No field with the Source Reference Number and applicable month and year values as described in the Tel_Yearly_EA_Records routine.

6.3.5 Generate Telecom Yearly Average Estimated Accrual Output Table

The Tel_Yearly_Output_Generate routine is identical to the Tel_Monthly_Output_Generate routine as described in Section 5.3.6 (Generate Telecom One-Month Basis Estimated Accrual Output Table). Refer the Section 5.3.6 and all of its sub-sections for descriptions of the routine and the tables that are affected.

6.3.6 Generate Telecom Yearly Average Estimated Accrual Generation Status Report

After the Tel_Yearly_Output_Generate routine is complete the Telecommunications Interface will call the

Tel_Yearly_Generation_Status_Report routine. This routine will generate the Yearly Average Estimated Accrual Generation Status Report (TEL203a) and write the report to the directory as specified on the INT001 screen. The Yearly Average Estimated Accrual Generation Status Report will capture the total number of yearly average estimated accrual records generated and the supporting details of the generated records. The purpose of the report is to provide end-users with a summary of the estimated accrual generation processing results.

At the conclusion of the routine the estimated accrual records temporary table will be deleted.

Depending upon the reporting selection entered on the TEL203 screen this report will be sent directly to a printer or e-mailed to the end-users e-mail account. Reports that are e-mailed will be designed to be imported into Microsoft Excel similar to the logic developed for QR101 reports.

6.3.6.1 Input

Refer to Section 5.3.5.2 (Input) for description of the tables needed prior to the execution of the Tel Yearly Generation Status Report routine.

6.3.6.2 Report Format

The following is the layout of the TEL203a - Telecommunications Interface Yearly Average Estimated Accrual Generation Status Report. The report will capture the processing results of the most recent yearly average estimated accrual generation processing routines.

Subject: Yearly EA Generation Status Report Date: Tue, 17 Sep 2002 12:29:31 -0400 (EDT) From: CAMS-MAIL-CENTER@rdc.noaa.gov CREATION RUN DATE: 09/17/2002 COMMERCE ADMINISTRATIVE MANAGEMENT SYSTEM USER ID: OPS\$NFROBLEG REPORT ID: TEL203r NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION PAGE : INSTANCE: GP2 TEL203a - CAMS/CFS TELECOMMUNICATIONS INTERFACE AVERAGE YARLY ESTIMATED ACCRUAL GENERATION STATUS REPORT Criteria: Interface File Type Processed: NWS Item Type Processed: MARINE Batch No Processed: 372 Estimated Accruals Generation Range: 01-SEP-2002 Through: 30-SEP-2002 Earliest Month Estimated Accruals Based On: 0CT-2001 Maximum Number of Occurences: 1 Estimated Accruals Generation Details: Source Reference Number Invoice Number Invoice Type Amount 8N6440444SEP02 507-644-0444 TELCOM \$12.92 9N6440100SEP02 507-644-0101 TELCOM \$17.85 TELCOM 9N6612996SEP02 703-661-2997 \$76.45 9N6763015SEP02 9N6770145SEP02 915-676-3016-139 TELCOM \$37.51 215-677-0146-868 TELCOM \$24.63 9N6770146SEP02 215-677-0147-869 TELCOM \$5.16 ***** END OF THE REPORT *****

Figure 14.0 - Layout of the TEL203a - Yearly Average Estimated Accrual Generation Status Report

- 6.3.6.3 TEL203a Yearly Average Estimated Accrual Generation Status Report Processing Logic
- 6.3.6.3.1 TEL203a Yearly Average Estimated Accrual Generation Status Report Overview

The document table below provides an overview of the processing logic associated with the columns on the TEL203a - Yearly Average Estimated Accrual Generation Status Report.

Report Label	Field Name	Type and Size
Creation Run Date	Date	Date
Report ID	Report_ID	Varchar2(10)
Instance	Instance	Varchar2(10)
User ID	User_ID	Varchar2(30)

Report Label	Field Name	Type and Size
Page	Page	Varchar2(3)
Interface File Type Processed:	Processed_Interface_File_Type	Varchar2(4)
Interface Item Type Processed:	Processed_Interface_Item_Type	Varchar2(6)
Estimated Accruals Generation	Processed_Month_Start	Varchar2(9)
Range:		
Through:	Processed_Month_End	Varchar2(9)
Earliest Month Estimated	Earliest_Basis_Month	Varchar2(9)
Accruals Based On:		
Maximum Number of Months of	Max_Months	Number(2)
Which to Base Estimated		
Accruals:		
Total Number of Estimated	Total_Records	Number(6)
Accrual Records Generated:		
Source Reference Number	Reference_No	Varchar2(20)
Invoice Number	Invoice_No	Varchar2(20)
Invoice Date	Invoice_Date	Varchar2(7)
Amount	Amount	Number(6,2)
Sub Total	Sub_Total	Number(7,2)
Total	Total	Number(8,2)

Table 6.9 - Overview Processing Logic for the TEL203a - Yearly Average Estimated Accrual Generation Status Report

6.3.6.3.2 TEL203a - Yearly Average Estimated Accrual Generation Status Report Detailed Review

The document tables below describe in detail the processing logic associated with the columns shown in the TEL203a - Yearly Average Estimated Accrual Generation Status Report.

Field Property	Property Value
Report Label	Creation Run Date:
Purpose	This field captures the execution date of the report. This field is part of the header record of the report.
Field Name	Date
Table Name	N/A
Format	DD-MON-RRRR, Left Align
Calculation Logic	System generated based upon the system date.

Field Property	Property Value
Report Label	Report ID:
Purpose	This field captures the report ID within CAMS/CFS. This field is part of the header record of the report.
Field Name	Report_ID
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Instance:
Purpose	This field captures the instance in which the report was generated. This field is part of the header record of the report.
Field Name	Instance
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	User ID:
Purpose	This field captures the Oracle Database User ID of the end-user that initiated the original execution of the processing that generated the report. This field is part of the header record of the report.
Field Name	User_ID
Table Name	N/A
Format	Right Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Page:
Purpose	This field captures the page number of the report. This field is part of the header record of the report.
Field Name	Page
Table Name	N/A
Format	999, Right Align
Calculation Logic	System generated based on the number of pages for the report.

Field Property	Property Value
Report Label	Interface_File_Type Processed:
Purpose	This field captures the Select_Interface_File_Type as selected on the TEL203 screen.
Field Name	Processed_Interface_File_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Interface_Item_Type Processed:
Purpose	This field captures the Select_Interface_Item_Type as selected on the TEL203 screen.
Field Name	Processed_Interface_Item_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Estimated Accruals Generation Range:
Purpose	This field captures the Generation_Month_Start as selected on the TEL203 screen.
Field Name	Processed_Month_Start
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Through:
Purpose	This field captures the Generation_Month_End as selected on the TEL203 screen.
Field Name	Processed_Month_End
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Earliest Month Estimated Accruals Based On:
Purpose	This field captures the Basis_Month as selected on the TEL203 screen.
Field Name	Earliest_Basis_Month
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value	
Report Label	Maximum Number of Months of Which to Base Estimated Accruals:	
Purpose	This field captures the Basis_Range as selected on the TEL203 screen.	
Field Name	Max_Month	
Table Name	N/A	
Format	Left Align	
Calculation Logic	N/A	

Field Property	Property Value	
Report Label	Total Number of Estimated Accrual Records Generated:	
Purpose	This field captures the total number of estimated accrual record generated by the yearly average estimated accrual process. Equal to the Trans_Count column on the Tel_EA_Header table.	
Field Name	Total_Records	
Table Name	N/A	
Format	999,999, Center Align	
Calculation Logic	N/A	

Field Property	Property Value
Report Label	Source Reference Number

Field Property	Property Value
Purpose	This field captures the source reference number of each estimated accrual record as captured in the Reference_No column on the Tel_EA_Control table.
Field Name	Reference_No
Table Name	N/A
Format	Center Align
Calculation Logic	This field should only be populated with the first nine characters captured within the Reference_No field.

Field Property	Property Value
Report Label	Invoice No
Purpose	This field captures the invoice number of each estimated accrual record as captured in the Invoice_No column on the Tel_EA_Control table.
Field Name	Invoice_No
Table Name	N/A
Format	Center Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Invoice Date
Purpose	This field captures the month and year of each estimated accrual record as captured in the Reference_No column on the Tel_EA_Control table.
Field Name	Invoice_Date
Table Name	N/A
Format	Center Align
Calculation Logic	This field should only be populated with the character spaces 11 - 17 as captured within the Reference_No field.

Field Property	Property Value	
Report Label	Amount	
Purpose	This field captures the total dollar figure for each estimated accrual record.	
Field Name	Amount	
Table Name	N/A	
Format	\$999,999.99, Center Align	
Calculation Logic	Summation of all values captured in the Unit_Price column on the Tel_EA_Item table for every item record that has a corresponding Trans_No on Tel_EA_Control and Tel_EA_Item.	

Field Property	Property Value
Report Label	Sub-Total:
Purpose	This field will be generated after each set of estimated accrual records that have the same Reference_No. This field will capture the total of the estimated accrual record grouping.
Field Name	Sub_Total
Table Name	N/A
Format	\$9,999,999.99, Center Align

Field Property	Property Value
Calculation Logic	Summation of all values captured in the Amount column on the TEL203a report that have the same Reference_No.

Field Property	Property Value
Report Label	Total:
Purpose	This field will capture the total amount of estimated accrual records generated by the yearly average estimated accrual processing.
Field Name	Total
Table Name	N/A
Format	\$99,999,999. Center Align
Calculation Logic	Summation of all values captured in the Amount column on the TEL203a report.

Table 6.10 - Detailed Review of the Processing Logic for the TEL203a - Yearly Average Estimated Accrual Generation Status Report

6.3.6.4 Output

Refer to Section 5.3.5.5 (Output) for description of the tables that will be affected by the Tel_Yearly_Generation_Status_Report routine.

6.3.7 Generate Closed or Inactive Invoice Record Report

The Tel_Closed_Invoice_Record_Report routine is initiated during the Tel_Yearly_EA_Records routine but is not completed until after the Telecommunications Interface completes the Tel Yearly Generation Status Report routine.

The routine will generate the Closed or Inactive Invoice Record Status Report (TEL203b) and write the report to the directory as specified on the INT001 screen. The Closed or Inactive Invoice Record Status Report will capture the total number of invoice records that met the criteria entered on the TEL203 initiation screen but were deactivated during the year. The report will also supply the supporting details of the inactive records. The purpose of the report is to provide end-users with a summary of the number of the telecommunication accounts that have been deactivated prior to execution.

Depending upon the reporting selection entered on the TEL203 screen this report will be sent directly to a printer or e-mailed to the end-users e-mail account. Reports that are e-mailed will be designed to be imported into Microsoft Excel similar to the logic developed for QR101 reports.

6.3.7.1 Input

Refer to Section 5.3.1.4 (Input) for description of the tables needed prior to the execution of the Tel_Closed_Invoice_Record_Report routine.

6.3.7.2 Report Format

The following is the layout of the TEL203b - Telecommunications Interface Closed or Inactive Invoice Record Report. The report will capture detail information about telecommunication accounts that have been deactivated prior to execution.

Subject: Inactive Invoice Report Date: Tue, 17 Sep 2002 12:29:32 -0400 (EDT) From: CAMS-MAIL-CENTER@rdc.noaa.gov CREATION RUN DATE: 09/17/2002 COMMERCE ADMINISTRATIVE MANAGEMENT SYSTEM USER ID: OPS\$NFROBLEG NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION REPORT ID: TEL203br PAGE : INSTANCE: GP2 TEL203B - CAMS/CFS TELECOMMUNICATIONS INTERFACE CLOSED OR INACTIVE INVOICE REPORT Criteria: Mis Interface File Type Processed: Item Type Processed: MARINE Inactive Invoice Record Range: 01-SEP-2002 Through: 30-SEP-2002 Earliest Month Inactive Invoice Records Based On: OCT-2001 Inactive Invoice Record Details: Source Reference Number Invoice Number Invoice Date Amount 9N6770145 215-677-0146-868 02-MAR-2002 \$24.63 9N6770146 215-677-0147-869 02-APR-2002 \$5.16 ***** END OF THE REPORT *****

Figure 15.0 - Layout of the TEL203b - Closed or Inactive Invoice Records Report

6.3.7.3 TEL203b - Closed or Inactive Invoice Record Report Processing Logic

6.3.7.3.1 TEL203b - Closed or Inactive Invoice Record Report Overview

The document table below provides an overview of the processing logic associated with the columns on the TEL203b - Closed or Inactive Invoice Records Report.

Report Label	Field Name	Type and Size
Creation Run Date	Date	Date
Report ID	Report_ID	Varchar2(10)
Instance	Instance	Varchar2(10)
User ID	User_ID	Varchar2(30)
Page	Page	Varchar2(3)
Interface File Type Processed:	Processed_Interface_File_Type	Varchar2(4)
Interface Item Type Processed:	Processed_Interface_Item_Type	Varchar2(6)
Estimated Accruals Generation Range:	Processed_Month_Start	Varchar2(9)
Through:	Processed_Month_End	Varchar2(9)
Earliest Month Estimated Accruals Based On:	Earliest_Basis_Month	Varchar2(9)

Report Label	Field Name	Type and Size
Maximum Number of Months of Which to Base Estimated Accruals:	Max_Months	Number(2)
Total Number of Estimated Accrual Records Generated:	Total_Records	Number(6)
Source Reference Number	Reference_No	Varchar2(20)
Invoice Number	Invoice_No	Varchar2(20)
Invoice Date	Invoice_Date	Varchar2(7)
Amount	Amount	Number(6,2)
Execution Date	Date	Date
Page	Page	Varchar2(3)

Table 6.11 - Detailed Review of the Processing Logic for the TEL203a - Yearly Average Estimated Accrual Generation Status Report

6.3.7.3.2 TEL203b - Closed or Inactive Invoice Record Report Detailed Review

The document tables below describe in detail the processing logic associated with the columns shown in the TEL203b - Closed or Inactive Invoice Record Report.

Field Property	Property Value
Report Label	Creation Run Date:
Purpose	This field captures the execution date of the report. This field is part of the header record of the report.
Field Name	Date
Table Name	N/A
Format	DD-MON-RRRR, Left Align
Calculation Logic	System generated based upon the system date.

Field Property	Property Value
Report Label	Report ID:
Purpose	This field captures the report ID within CAMS/CFS. This field is part of the header record of the report.
Field Name	Report_ID
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Instance:
Purpose	This field captures the instance in which the report was generated. This field is part of the header record of the report.
Field Name	Instance
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	User ID:
Purpose	This field captures the Oracle Database User ID of the end-user that initiated the original execution of the processing that generated the report. This field is part of the header record of the report.
Field Name	User_ID
Table Name	N/A
Format	Right Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Page:
Purpose	This field captures the page number of the report. This field is part of the header record of the report.
Field Name	Page
Table Name	N/A
Format	999, Right Align
Calculation Logic	System generated based on the number of pages for the report.

Field Property	Property Value
Report Label	Interface_File_Type Processed:
Purpose	This field captures the Select_Interface_File_Type as selected on the TEL203 screen.
Field Name	Processed_Interface_File_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Interface_Item_Type Processed:
Purpose	This field captures the Select_Interface_Item_Type as selected on the TEL203 screen.
Field Name	Processed_Interface_Item_Type
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Estimated Accruals Generation Range:
Purpose	This field captures the Generation_Month_Start as selected on the TEL203 screen.
Field Name	Processed_Month_Start
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Through:
Purpose	This field captures the Generation_Month_End as selected on the TEL203
	screen.
Field Name	Processed_Month_End
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Earliest Month Estimated Accruals Based On:
Purpose	This field captures the Basis_Month as selected on the TEL203 screen.
Field Name	Earliest_Basis_Month
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Maximum Number of Months of Which to Base Estimated Accruals:
Purpose	This field captures the Basis_Range as selected on the TEL203 screen.
Field Name	Max_Month
Table Name	N/A
Format	Left Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Total Number of Closed or Inactive Invoice Records:
Purpose	This field captures the total number of closed or inactive invoice records that were kicked out of the Tel_Yearly_EA_Records routine. Equal to the total number of rows within the report.
Field Name	Total_Records
Table Name	N/A
Format	999,999, Center Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Source Reference Number
Purpose	This field captures the source reference number for each invoice record. This field will be populated from the Reference_No column on the temporary AP_Control table.
Field Name	Reference_No
Table Name	N/A
Format	Center Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Invoice No
Purpose	This field captures the invoice number for each invoice record. This field will be populated from the Invoice_No column on the temporary AP_Control table.
Field Name	Invoice_No
Table Name	N/A
Format	Center Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Invoice Date
Purpose	This field captures the invoice date for each invoice record. This field will be populated from the Invoice_Date column on the temporary AP_Control table.
Field Name	Invoice_Date
Table Name	N/A
Format	Center Align
Calculation Logic	N/A

Field Property	Property Value
Report Label	Amount
Purpose	This field captures the total dollar figure for each invoice record. This field will be populated from the Invoice_Amount column on the temporary AP_Control table.
Field Name	Amount
Table Name	N/A
Format	\$999,999.99, Center Align
Calculation Logic	N/A

Table 6.12 - Detailed Review of the Processing Logic for the TEL203a - Yearly Average Estimated Accrual Generation Status Report

6.3.7.4 Output

Refer to Section 5.3.5.5 (Output) for description of the tables that will be affected by the Tel_Closed_Invoice_Record_Report routine.

6.3.8 Requirements Met in Previous Section

The document table below lists the requirements met by the detailed design. The table references the Telecommunications Interface Services Requirements Version 5.2 for the requirement number, applicable page and description of the requirement.

Requirement Number	Page	Description
CP - 3	13	For all estimated accruals, the Telecommunications Interface will post the records in CAMS/CFS on PM050.

Requirement Number	Page	Description
CP - 16	18	The Telecommunications Interface will pass accrual information to CAMS/CFS through the impending standard interface.

Table 6.13 - Requirements Met in the Previous Section

6.4 Telecommunications Interface Yearly Average Estimated Accrual Generation Processing Risks

Refer to the risks identified in Section 4.5.

6.5 Telecommunications Interface Yearly Average Estimated Accrual Generation Processing Issues

Refer to the issues identified in Section 4.6.

7 Section 508 Software Accessibility Standards and Guidelines

All electronic forms developed for the Telecommunications Interface will be compliant with the accessibility standards at 36 CFR 1194, which implements Section 508 of the Rehabilitation Act of 1973.

The Telecommunications Interface design will rely upon the CAMS Support Center (CSC) guidelines as outlined in the 'CSC Programming Standards & Guidelines' document to ensure compliance with Section 508 standards. The Telecommunications Interface will be compliant with the following provisions as documented for software applications in Section F - Section 508 Software Accessibility Standards and Guidelines, F.2 Software Applications, Page 115. Refer the CSC Programming Standards and Guidelines for more information about Section 508 compliance.

8 References

The information discussed in this document was compiled by conducting a series of user interviews, reviewing CFS functionality and documentation, and review of supporting technical documentation.

8.1 **Documents**

The following documents were used as reference materials in compiling this document:

Document References

Department of Commerce CAMS Support Center CFS-ASAP Interface Requirement Definition

Department of Commerce CAMS Support Center Estimate Accrual Enhancement - Phase III

Department of Commerce CAMS Support Center Requirement Analysis Periodical Estimated Accruals Enhancement

Department of Commerce Invoice Validate Post Process

Department of Commerce NOAA CAMS/CFS GTA Detailed Design

Department of Commerce NOAA CAMS/CFS Implementation Draft Telecommunications Detailed

Department of Commerce NOAA CAMS/CFS Implementation File Definition for OPAC BAC [GSA BAC]

Department of Commerce NOAA Implementing Grants in CFS Requirements Document

Department of Commerce NOAA National Weather Service Automated Payment Program Detailed Design

Department of Commerce OPAC Processing Procedures

Department of Commerce Requirements for Automating ASOS Services Invoice Payments

Department of Commerce Standard Interface-AP Requirements Definition Receiving Tickets, Estimated Accruals, Vendor Invoices, and Accomplish Corrections Final 1.0.

Table 8.0 - Document References

8.2 People

The following individuals were consulted and provided input in compiling this document:

Personnel References	
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Table 8.1 - Personnel References